

Molecular Packing and Symmetry of Two-Dimensional Crystals

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Supporting Information

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1) Details of database construction and structural assignment

To obtain candidates for inclusion in the database, a thorough literature search was conducted using Scifinder Scholar (Version 2004, Copyright ©2003 American Chemical Society) with the keyword combinations in Table S1. Candidates selected from the abstracts returned were examined in detail to determine that they met selection criteria. It was attempted to include all such monolayers, and cross-checks between different keyword combinations indicated that most papers were found more than once. No abstracts or dissertations were included, and a few papers could not be obtained through library sources. Non-review articles published before the end of 2004 (315 total) were included.

Table S1. Keyword combinations used in Scifinder Scholar to find papers for the 2DSD.

Keyword 1	Keyword 2	Number of hits from 1988-2004
2D	graphite	608
2D	scanning tunneling	446
2D	STM	394
graphite	interface	7219
graphite	monolayer	1864
graphite	scanning tunneling	2217
interface	scanning tunneling	2984
interface	STM	2395
monolayer	scanning tunneling	3170
self-assembly	graphite	520
STM	graphite	1819
STM	monolayer	2667
two-dimensional	graphite	1312
two-dimensional	scanning tunneling	1113
two-dimensional	STM	759

Papers were analyzed and the data were collected into a Chemfinder (ChemOffice Ultra 2004, Copyright ©2004 Cambridgesoft) database. Each distinct monolayer within a paper was given an entry in the database, so every compound, combination of compounds, and different packing motif for the same compound was included. This resulted in multiple entries for some compounds that were reported more than once, in a process analogous to that of the Cambridge Structural Database. Repetitions were

included in the database, as resolution often improved in later papers, but only the highest resolution entry for each form was considered in the analyses described in the paper.

A structural description of the overlayer that matched the STM image was developed. The plane group and the number of molecules in the asymmetric unit were determined (Z'). The crystal class (whether the unit cell was oblique, rectangular, square, or hexagonal) and number of molecules in the unit cell (Z) followed from this assignment. A resolution descriptor, which is roughly comparable to the R-factor of a crystal structure, was included to describe the certainty of the plane group, crystal class, Z , and Z' values. The resolution descriptors were broadly grouped into high, medium, low, and disordered. Monolayers in the high and medium categories were sufficiently resolved that a confident symmetry assignment could be made. These monolayers were included in the analyses in the paper. A common example of a medium resolution monolayer was that of the *n*-alkanes where the presence of glide planes was not always apparent from the image; however their structure was confirmed by the highest resolution images and by neutron diffraction studies. Low resolution monolayer images were such that if an assignment could be made, little confidence was placed in it, or no assignment was realistic. Disordered monolayers were such that periodicity was often randomly broken. Some of these monolayers could be assigned local symmetry; for instance monolayers that randomly change the orientation of columns can be described by the dominant symmetry relationship. Such monolayers, however, have been excluded in the present analysis.

Although STM provides the highest resolution of any method of examining surface structure, not every atom is generally apparent. The highest apparent symmetries were assigned, assuming no disorder without experimental evidence. Thus, in the cases where the monolayers appeared more symmetric than the molecules themselves, the plane group symmetry assignments were limited to those consistent with molecular symmetry. In cases where unresolved portions of the molecule might break symmetry, it was not assumed that they did.

The site symmetry, or the symmetry position of the molecule in the unit cell, was assigned for every molecule. If a molecule resided on a two-fold rotation, the site symmetry is 2, whereas a molecule in a

general position is denoted by 1. This convention was continued for the 3-, 4- and 6-fold rotations, while m represents occupation of a mirror plane, g represents occupation of a glide plane, and 2mm simultaneous occupation of a two-fold rotation and perpendicular mirror planes. The highest possible molecular symmetry was identified by inspection. Thus, monolayers that consist of symmetry inequivalent molecules or multiple components required several assignments of site and molecular symmetry. For single component monolayers composed of symmetry inequivalent molecules, multiple site symmetries were assigned. For multicomponent entries, molecular symmetry and site symmetry were assigned for each component. The order in which the site symmetry is listed is the same as for the molecular symmetry.

2) Expanded discussion of selection criteria

The method of physisorbed monolayer formation could impact the observed trends in monolayer structure in several ways. Firstly, the method of deposition influences which molecules are included. The 2DSD is largely made up of molecules decorated with alkyl chains, which aid in assembly and solubilization. There is an overall lack of highly symmetric molecules and this certainly affects the overall plane group frequencies. For example, using other formation methods, four-fold symmetric molecules have been assembled into monolayers with p4 symmetry,¹ which was not observed in the analysis of the 2DSD presented here. This effect has been accounted for in the discussion of tendency toward close packing. Measurement of the plane group frequencies for molecules sitting on a general position controls for the influence of the various molecular symmetries included in the dataset. An additional factor in rapid monolayer preparation procedures is the increased possibility of observing higher-energy, non-equilibrium structures. While this was the basis for exclusion of these structures, there exists some evidence suggesting that the results obtained in this study will be relevant to these other systems. While extensive comparisons have not been made, there are reports of molecules forming the same packing motif when assemblies are created using more than one method,^{2,3,4} although this is not always the case.⁵ Furthermore, some examples do exist of vacuum-deposited structures on graphite, including a report detailing the importance of packing efficiency on motif and growth mode selection,^{1,6} suggesting that the tendency toward close packing will play an important role in dictating the assembly of these structures.

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- (4) Trimesic acid adopts two different packing motifs at the graphite interface, both of which have been observed in solution (Lackinger, M.; Griessl, S.; Heckl, W. A.; Hietschold, M.; Flynn, G.

- W., *Langmuir*, **2005**, *21*, 4984-4988) and in ultra-high vacuum (Griessl, S.; Lackinger, M.; Edelwirth, M.; Hietschold, M.; Heckl, W. M., *Single Mol.*, **2002**, *3*, 25-31)
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- (6) Fujiwara, E.; Isoda, S.; Ogawa, T.; Kobayashi, T.; Yamashita, Y. *Surf. Sci.* **2001**, *487*, 118-126.

3) Comparison of the symmetry of the position on which a molecule sits in the unit cell and the highest possible molecular symmetry

Table S2. Below is a comparison of the symmetry of the position on which a molecule sits in the unit cell compared to the highest possible molecular symmetry. This reveals how often molecular symmetry is lost when forming a two-dimensional periodic structure.

molecular symmetry	number of occurrences	molecular symmetry	number of occurrences
general position			
C(s)	195	simultaneous two-fold rotation and perpendicular mirror planes	
C(1)	63	D(4h)	1
C(2v)	36	D(2h)	1
C(2h)	3	three-fold rotation	
S(6)	2	D(3h)	9
D(3h)	2	C(3h)	1
C(6h)	2	C(3)	1
C(3)	2	six-fold rotation	
D(3d)	1	D(6h)	1
D(2h)	1	D(6d)	1
C(2)	1	C(6h)	1
two-fold rotation			
C(2h)	53	C(6)	1
D(2h)	14	mirror plane	
C(2v)	13	C(2v)	15
C(2h)	9	C(2h)	3
C(2)	4	C(s)	2
C(6h)	3	D(3h)	1
D(6h)	2		
D(4h)	2		
C(4)	2		
D(3d)	1		
D(24h)	1		

4) Three-dimensional space group frequencies

The frequencies of occurrence of the space groups in the CSD were determined using the November 2004 version, version 5.26. To eliminate repeated entries, only refcodes not containing numbers were included. Both organic and organometallic entries were considered. While the exact percentages varied slightly depending on the R factors of the structures and dataset, only the space groups $P2_1/c$, $P\bar{1}$, $P2_12_12_1$, $C2/c$, $P2_1$, and $Pbca$ were observed in more than 2.0% of the entries and are in agreement with previous in-depth space group frequency analyses (Brock, C. P.; Dunitz, J. D. *Chem. Mater.*, **1994**, *6*, 1118-1127). $Pbca$ was not mentioned in Kitaigorodskii, A. I., *Organic Chemical Crystallography*, **1959**, (Consultants Bureau, New York) as a close-packing group, but has since been included (Wilson, A.J.C., *Acta Cryst.*, **1993**, *A49*, 210-212).

Table S3. Space group frequencies from the CSD.

space group number	space group name	total number of observations in initial structure determinations	percentage of observations
14	$P2_1/c$	101679	35.60
2	$P\bar{1}$	64259	22.50
19	$P2_12_12_1$	23753	8.32
15	$C2/c$	22182	7.77
4	$P2_1$	15922	5.57
61	$Pbca$	10295	3.60
33	$Pna2_1$	4141	1.45
62	$Pnma$	3701	1.30
9	Cc	3073	1.08
1	$P1$	2761	0.97
60	$Pbcn$	2512	0.88
5	$C2$	2448	0.86
29	$Pca2_1$	2042	0.71
11	$P2_1/m$	1651	0.58
148	$R\bar{3}$	1610	0.56
13	$P2/c$	1580	0.55
12	$C2/m$	1400	0.49
18	$P2_12_12$	1245	0.44

7	<i>Pc</i>	1089	0.38
56	<i>Pccn</i>	960	0.34
43	<i>Fdd2</i>	915	0.32
88	<i>I4₁/a</i>	906	0.32
92	<i>P4₁2₁2</i>	638	0.22
20	<i>C222₁</i>	498	0.17
36	<i>Cmc2₁</i>	464	0.16
96	<i>P4₃2₁2</i>	412	0.14
82	<i>I<bar{4}< i=""></bar{4}<></i>	399	0.14
64	<i>Cmca</i>	383	0.13
146	<i>R3</i>	377	0.13
114	<i>P<bar{4}2<sub>1c</bar{4}2<sub></i>	376	0.13
86	<i>P4₂/n</i>	373	0.13
167	<i>R-3c</i>	337	0.12
57	<i>Pbcm</i>	323	0.11
63	<i>Cmcm</i>	304	0.11
total number of observations		285623	all others \leq 0.10

5) List of all papers included in the 2DSD

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6) The structural assignments for high and medium resolution entries into the 2DSD.

Record 1

13-hydroxytridecanenitrile

	Z'	1
plane group	pg	molecular symmetry
crystal class	rectangular	site symmetry
Z	2	molecular weight (Da)
Z'	1	multicomponent
molecular symmetry	C(s)	Walzer, K. & Hietschold, M. J. Vac. Sci. Technol., B 1996 14, 1461-1465.
site symmetry	1	
molecular weight (Da)	211.34	
multicomponent	no	

Claypool, C. L., Faglioni, F., Goddard, W. A., Gray, H. B., Lewis, N. S. & Marcus, R. A. J. Phys. Chem. B 1997 101, 5978-5995.

Record 2

1-decanol

	plane group	pg
crystal class	rectangular	
Z	2	
Z'	1	
molecular symmetry	C(s)	
site symmetry	1	
molecular weight (Da)	158.28	
multicomponent	no	

Claypool, C. L., Faglioni, F., Goddard, W. A., Gray, H. B., Lewis, N. S. & Marcus, R. A. "Source of image contrast in STM images of functionalized alkanes on graphite: A systematic functional group approach." J. Phys. Chem. B 1997 101, 5978-5995.

Record 3

4-n-octyloxy-4'-cyanobiphenyl (8OCB)

	plane group	pg
crystal class	rectangular	
Z	2	

Z'	1
molecular symmetry	C(s)

site symmetry	1
molecular weight (Da)	307.43
multicomponent	no

Walzer, K. & Hietschold, M. J. Vac. Sci. Technol., B 1996 14, 1461-1465.

Record 4

1-tetradecanol

	plane group	pg
crystal class	rectangular	
Z	2	
Z'	1	
molecular symmetry	C(s)	
site symmetry	1	
molecular weight (Da)	214.39	
multicomponent	no	

Claypool, C. L., Faglioni, F., Goddard, W. A., Gray, H. B., Lewis, N. S. & Marcus, R. A. J. Phys. Chem. B 1997 101, 5978-5995.

Record 5

12,12,12-trifluorododecan-1-ol

	plane group	pg
crystal class	rectangular	
Z	2	
Z'	1	
molecular symmetry	C(s)	
site symmetry	1	
molecular weight (Da)	240.31	
multicomponent	no	

Claypool, C. L., Faglioni, F., Goddard, W. A., Gray, H. B., Lewis, N. S. & Marcus, R. A. J. Phys. Chem. B 1997 101, 5978-5995.

Record 6

12-bromododecanol

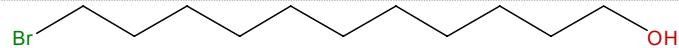
	plane group	pg
--	-------------	----

<i>crystal class</i>	rectangular
<i>Z</i>	2
<i>Z'</i>	1
<i>molecular symmetry</i>	C(s)
<i>site symmetry</i>	1
<i>molecular weight (Da)</i>	265.23
<i>multicomponent</i>	no

Claypool, C. L., Faglioni, F., Goddard, W. A., Gray, H. B., Lewis, N. S. & Marcus, R. A. J. Phys. Chem. B 1997 101, 5978-5995.

Record 7

11-bromoundecanol

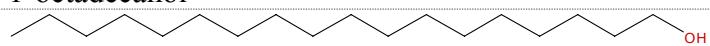


<i>plane group</i>	pg
<i>crystal class</i>	rectangular
<i>Z</i>	2
<i>Z'</i>	1
<i>molecular symmetry</i>	C(s)
<i>site symmetry</i>	1
<i>molecular weight (Da)</i>	251.20
<i>multicomponent</i>	no

Giancarlo, L. C., Fang, H. B., Rubin, S. M., Bront, A. A. & Flynn, G. W. J. Phys. Chem. B 1998 102, 10255-10263.

Record 8

1-octadecanol

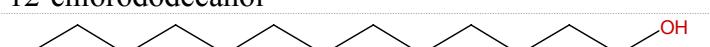


<i>plane group</i>	pg
<i>crystal class</i>	rectangular
<i>Z</i>	2
<i>Z'</i>	1
<i>molecular symmetry</i>	C(s)
<i>site symmetry</i>	1
<i>molecular weight (Da)</i>	270.49
<i>multicomponent</i>	no

Rabe, J. P. & Buchholz, S. Science 1991 253, 424-427.

Record 9

12-chlorododecanol

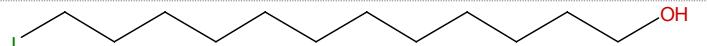


<i>plane group</i>	pg
<i>crystal class</i>	rectangular
<i>Z</i>	2
<i>Z'</i>	1
<i>molecular symmetry</i>	C(s)
<i>site symmetry</i>	1
<i>molecular weight (Da)</i>	220.78
<i>multicomponent</i>	no

Claypool, C. L., Faglioni, F., Goddard, W. A., Gray, H. B., Lewis, N. S. & Marcus, R. A. J. Phys. Chem. B 1997 101, 5978-5995.

Record 10

12-iodododecanol



<i>plane group</i>	pg
<i>crystal class</i>	oblique
<i>Z</i>	2
<i>Z'</i>	1
<i>molecular symmetry</i>	C(s)
<i>site symmetry</i>	1
<i>molecular weight (Da)</i>	312.23
<i>multicomponent</i>	no

Claypool, C. L., Faglioni, F., Goddard, W. A., Gray, H. B., Lewis, N. S. & Marcus, R. A. J. Phys. Chem. B 1997 101, 5978-5995.

Record 11

hexadec-7-yne-1-ol

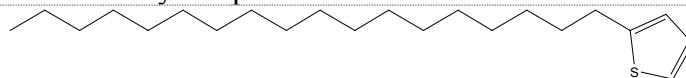


<i>plane group</i>	pg
<i>crystal class</i>	rectangular
<i>Z</i>	2
<i>Z'</i>	1
<i>molecular symmetry</i>	C(s)
<i>site symmetry</i>	1
<i>molecular weight (Da)</i>	238.41
<i>multicomponent</i>	no

Claypool, C. L., Faglioni, F., Goddard, W. A., Gray, H. B., Lewis, N. S. & Marcus, R. A. J. Phys. Chem. B 1997 101, 5978-5995.

Record 12



3-n-octadecylthiophene

plane group	pg
crystal class	rectangular
Z	2
Z'	1
molecular symmetry	C(s)
site symmetry	1
molecular weight (Da)	336.62
multicomponent	no

Fukunaga, T., Harada, K., Takashima, W. & Kaneto, K. Jpn. J. Appl. Phys., Part 1 1997 36, 4466-4467.

Record 13

octadecyl undecyl disulfide

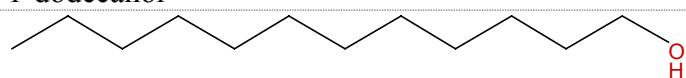


plane group	pg
crystal class	rectangular
Z	2
Z'	1
molecular symmetry	C(s)
site symmetry	1
molecular weight (Da)	472.92
multicomponent	no

noh, J., Lee, D., Hara, M., Lee, H., Sasabe, H. & Knoll, W. Jpn. J. Appl. Phys., Part 1 1999 38, 3897-3900.

Record 14

1-dodecanol

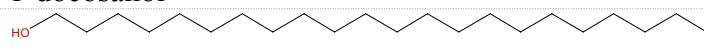


plane group	pg
crystal class	rectangular
Z	2
Z'	1
molecular symmetry	C(s)
site symmetry	1
molecular weight (Da)	186.33
multicomponent	no

Claypool, C. L., Faglioni, F., Goddard, W. A., Gray, H. B., Lewis, N. S. & Marcus, R. A. J. Phys. Chem. B 1997 101, 5978-5995.

Record 15

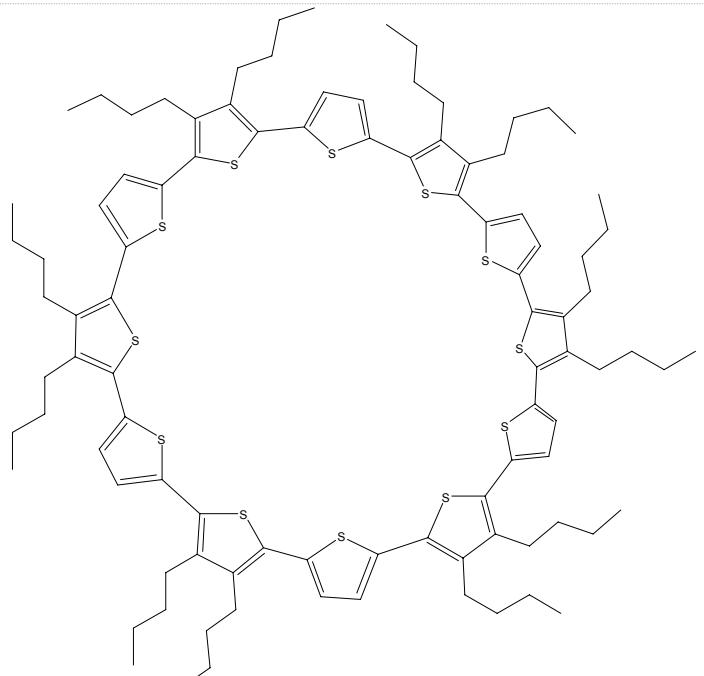
1-docosanol



plane group	pg
crystal class	rectangular

Z	2
Z'	1
molecular symmetry	C(s)
site symmetry	1
molecular weight (Da)	326.60
multicomponent	no

Gunning, A. P., Kirby, A. R., Mallard, X. & Morris, V. J. J. Chem. Soc., Faraday Trans. 1994 90, 2551-2554.

Record 16

plane group	p6
crystal class	hexagonal
Z	1
Z'	0.1666
molecular symmetry	D(6h)
site symmetry	6

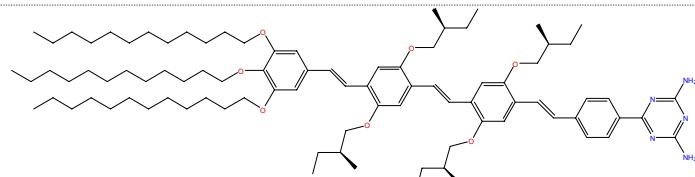
molecular weight (Da) 1658.76

multicomponent no

Krömer, J., Rios-Carreras, I., Furhmann, G., Musch, C., Wunderlin, M., Debaerdemacker, T., Mena-Osteritz, E. & Bäuerle, P. *Angew. Chem., Int. Edit.* 2000 39, 3481-3486.

Record 17

6-(4-(4-(2,5-bis((S)-2-methylbutoxy)-4-(3,4,5-tris(dodecycloxy)styryl)styryl)-2,5-bis((S)-2-methylbutoxy)styryl)phenyl)-1,3,5-triazine-2,4-diamine



plane group *p6*

crystal class hexagonal

Z 6

Z' 1

molecular symmetry C(1)

site symmetry 1

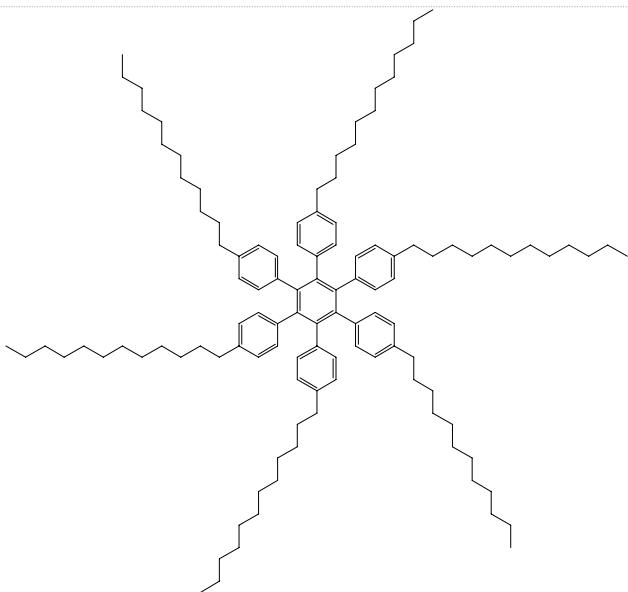
molecular weight (Da) 1391.09

multicomponent no

Jonkheijm, P., Miura, A., Zdanowska, M., Hoeben, F. J. M., De Feyter, S., Schenning, A. P. H. J., De Schryver, F. C. & Meijer, E. W. *Angew. Chem., Int. Edit.* 2004 43, 74-78.

Record 18

hexadodecyl-hexaphenylbenzene



plane group

p6

crystal class

hexagonal

Z 1

0.1666

molecular symmetry

C(6h)

site symmetry

6

molecular weight (Da)

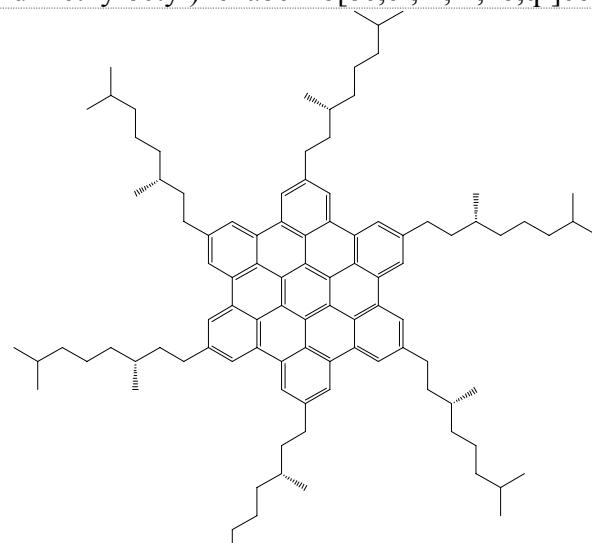
1544.60

multicomponent no

Samorí, P., Simpson, C. D., Müllen, M. & Rabe, J. P. *Langmuir* 2002 18, 4183-4185.

Record 19

2,5,8,11,14,17-hexakis((R)-3,7-dimethyloctyl)hexabenzocoronene



plane group

p6

crystal class

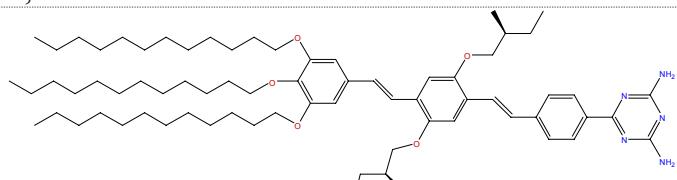
hexagonal

<i>Z</i>	1
<i>Z'</i>	0.1666
<i>molecular symmetry</i>	C(6)
<i>site symmetry</i>	6
<i>molecular weight (Da)</i>	1364.19
<i>multicomponent</i>	no

Samorí, P., Fechtenkötter, A., Jäckel, F., Böhme, T., Müllen, K. & Rabe, J. P. *J. Am. Chem. Soc.* 2001 123, 11462-11467.

Record 20

6-(4-(2,5-bis((S)-2-methylbutoxy)-4-(3,4,5-tris(dodecyloxy)styryl)styryl)phenyl)-1,3,5-triazine-2,4-diamine

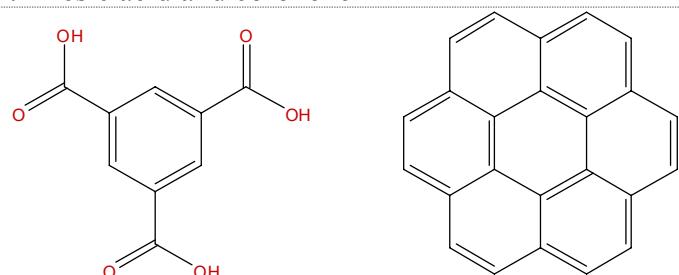


<i>plane group</i>	<i>p</i> 6
<i>crystal class</i>	hexagonal
<i>Z</i>	6
<i>Z'</i>	1
<i>molecular symmetry</i>	C(1)
<i>site symmetry</i>	1
<i>molecular weight (Da)</i>	1116.69
<i>multicomponent</i>	no

Jonkheijm, P., Miura, A., Zdanowska, M., Hoeben, F. J. M., De Feyter, S., Schenning, A. P. H. J., De Schryver, F. C. & Meijer, E. W. *Angew. Chem., Int. Edit.* 2004 43, 74-78.

Record 21

trimesic acid and coronene



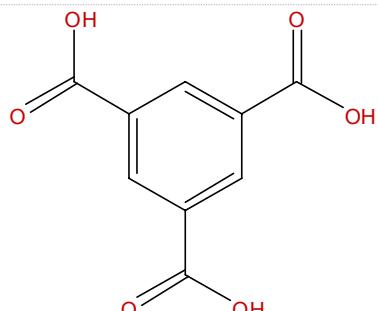
<i>plane group</i>	<i>p</i> 6
<i>crystal class</i>	hexagonal
<i>Z</i>	3
<i>Z'</i>	0.5

<i>molecular symmetry</i>	C(3), D(6d)
<i>site symmetry</i>	3 6
<i>molecular weight (Da)</i>	542.58
<i>multicomponent</i>	yes

Griessl, S. J. H., Lackinger, M., Jamitzky, F., Markert, T., Hietschold, M. & Heckl, W. M. *Langmuir* 2004 20, 9403-9407.

Record 22

trimesic acid

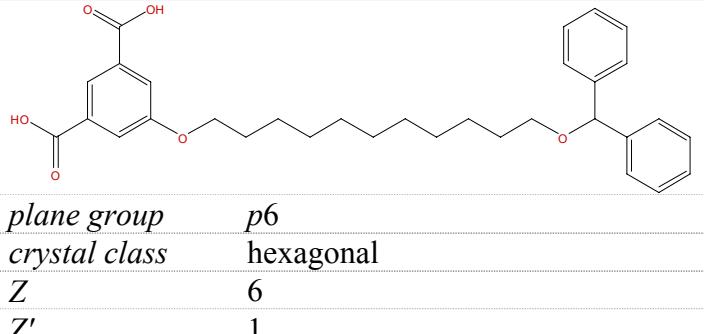


<i>plane group</i>	<i>p</i> 6
<i>crystal class</i>	hexagonal
<i>Z</i>	2
<i>Z'</i>	0.3333
<i>molecular symmetry</i>	C(3h)
<i>site symmetry</i>	3
<i>molecular weight (Da)</i>	210.14
<i>multicomponent</i>	no

Griessl, S. J. H., Lackinger, M., Jamitzky, F., Markert, T., Hietschold, M. & Heckl, W. M. *Langmuir* 2004 20, 9403-9407.

Record 23

5-(11-(benzhydryloxy)undecyloxy)isophthalic acid



<i>plane group</i>	<i>p</i> 6
<i>crystal class</i>	hexagonal
<i>Z</i>	6
<i>Z'</i>	1
<i>molecular symmetry</i>	C(s)
<i>site symmetry</i>	1
<i>molecular weight (Da)</i>	518.64

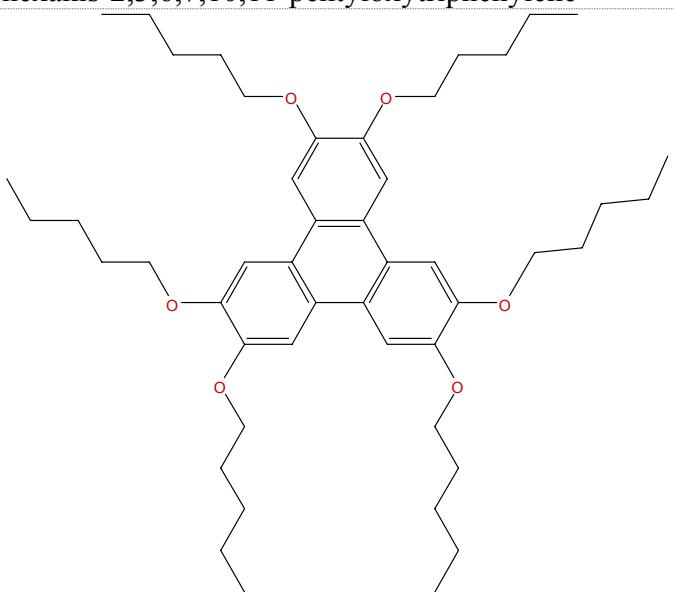
weight (Da)

multicomponent no

De Feyter, S., Gesquière, A., Klapper, M., Müllen, K.
& De Schryver, F. C. Nano Lett. 2003 3, 1485-1488.

Record 24

hexakis-2,3,6,7,10,11-pentyloxytriphenylene



plane group

p3

crystal class

hexagonal

Z

1

Z'

0.3333

molecular symmetry

D(3h)

site symmetry

3

molecular

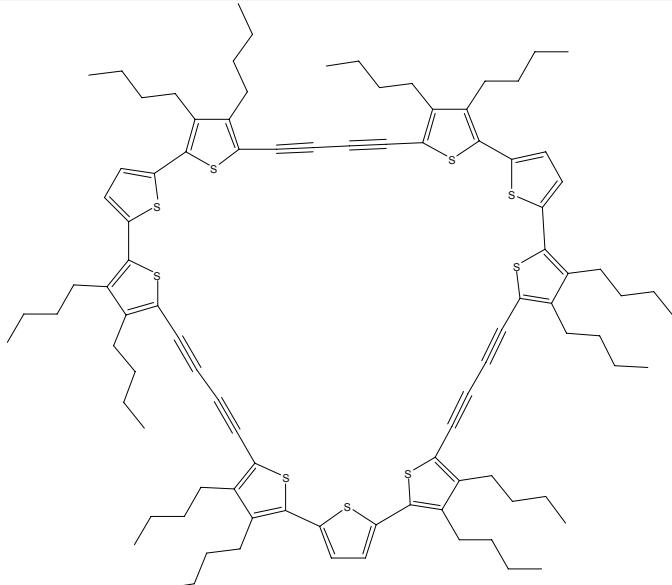
745.08

weight (Da)

multicomponent no

Charra, F. & Cousty, J. Opt. Mater. 1998 9, 386-389.

Record 25



plane group

p3

crystal class

hexagonal

Z

1

Z'

0.3333

molecular symmetry

D(3h)

site symmetry

3

molecular

1556.52

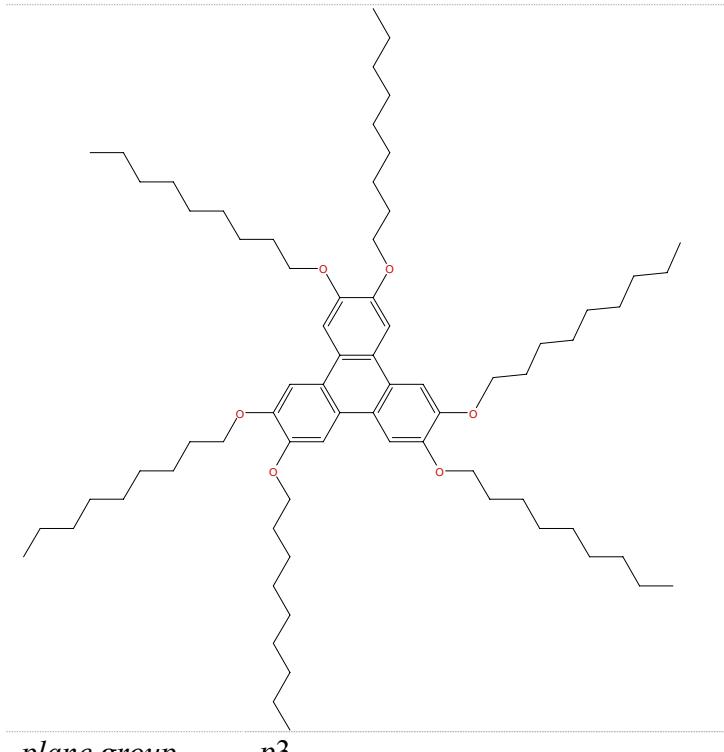
weight (Da)

multicomponent no

Mena-Osteritz, E. & Bäuerle, P. Adv. Mater. 2001 13, 243-246.

Record 26

hexakis-2,3,6,7,10,11-nonyloxytriphenylene

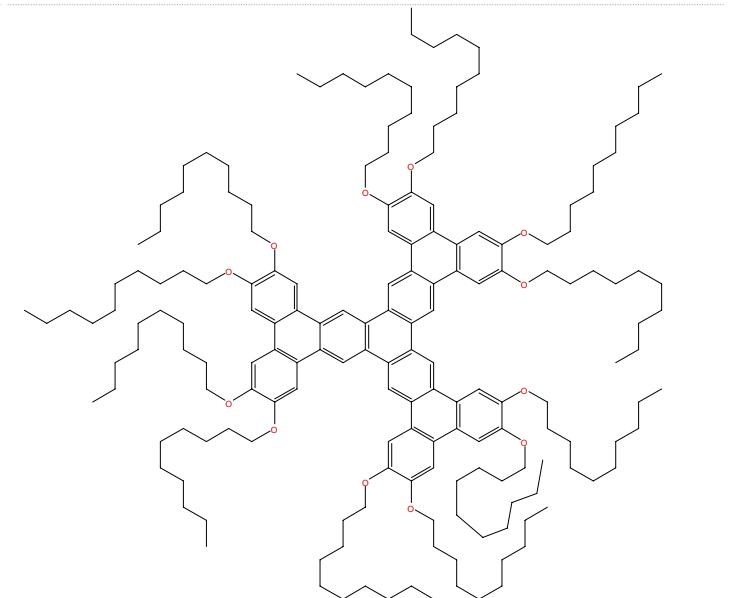


<i>plane group</i>	<i>p3</i>
<i>crystal class</i>	hexagonal
<i>Z</i>	3
<i>Z'</i>	1
<i>molecular symmetry</i>	D(3h)
<i>site symmetry</i>	3 3 3
<i>molecular weight (Da)</i>	1081.72
<i>multicomponent</i>	no

Charra, F. & Cousty, J. Phys. Rev. Lett. 1998 80, 1682-1685.

Record 27

2,3,6,7,12,13,16,17,22,23,26,27-
Dodecakis(decyloxy)hexabenzo[a,c,k,m,u,w]trinaphthylene (4c).

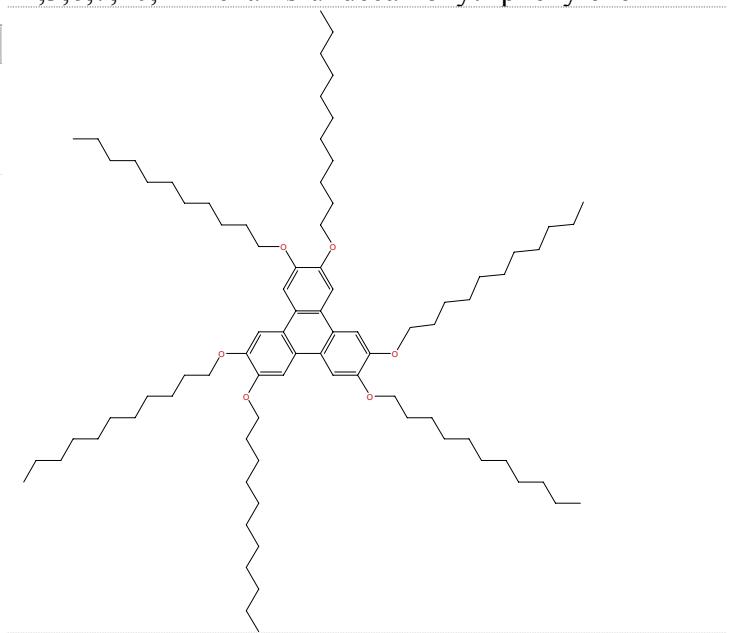


<i>plane group</i>	<i>p3</i>
<i>crystal class</i>	hexagonal
<i>Z</i>	1
<i>Z'</i>	0.3333
<i>molecular symmetry</i>	D(3h)
<i>site symmetry</i>	3
<i>molecular weight (Da)</i>	2554.00
<i>multicomponent</i>	no

Yatabe, T., Harbison, M. A., Brand, J. D., Wagner, M., Müllen, K., Samorí, P. & Rabe, J. P. J. Mater. Chem. 2000 10, 1519-1525.

Record 28

2,3,6,7,10,11-hexakis-undecalkoxytriphenylene

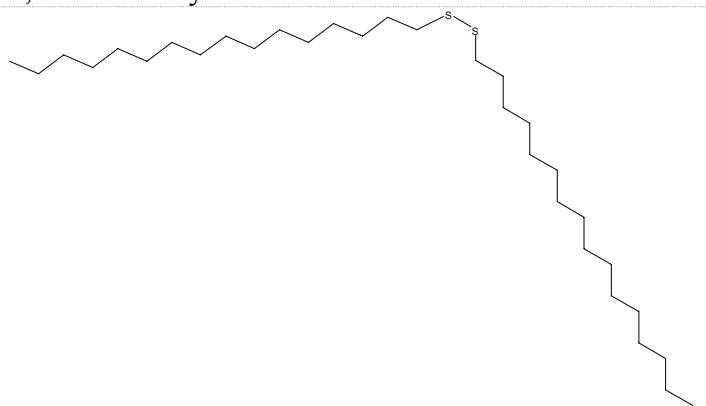


plane group	p3
crystal class	hexagonal
Z	3
Z'	1
molecular symmetry	D(3h)
site symmetry	3 3 3
molecular weight (Da)	1250.04
multicomponent	no

Perronet, K. & Charra, F. Surf. Sci. 2004 551, 213-218.

Record 29

1,2-dihexadecyldisulfane

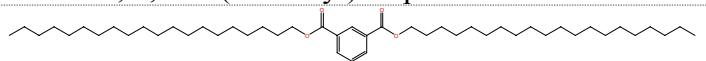


plane group	p2mg
crystal class	rectangular
Z	2
Z'	0.5
molecular symmetry	C(2v)
site symmetry	m
molecular weight (Da)	515.00
multicomponent	no

Claypool, C. L., Faglioni, F., Goddard, W. A., Gray, H. B., Lewis, N. S. & Marcus, R. A. J. Phys. Chem. B 1997 101, 5978-5995.

Record 30

Ester-22; 1,3-di-(1-eicosyl) isophthalate



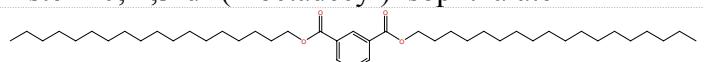
plane group	p2mg
crystal class	rectangular
Z	2
Z'	0.5
molecular symmetry	C(2v)

symmetry	
site symmetry	m
molecular	727.19
weight (Da)	
multicomponent	no

Plass, K. E., Kim, K. & Matzger, A. J. J. Am. Chem. Soc. 2004 126, 9042-9053.

Record 31

Ester-20; 1,3-di-(1-octadecyl) isophthalate

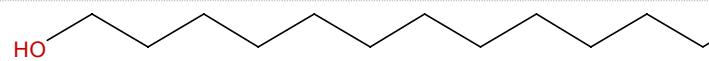


plane group	p2mg
crystal class	rectangular
Z	2
Z'	0.5
molecular symmetry	C(2v)
site symmetry	m
molecular weight (Da)	671.09
multicomponent	no

Plass, K. E., Kim, K. & Matzger, A. J. J. Am. Chem. Soc. 2004 126, 9042-9053.

Record 32

1,14-tetradecanediol

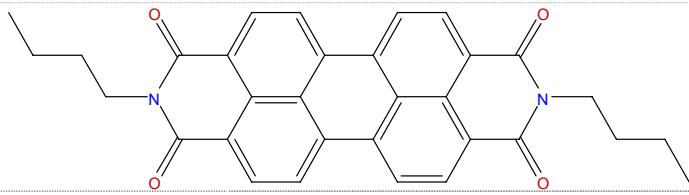


plane group	p2gg
crystal class	rectangular
Z	2
Z'	0.5
molecular symmetry	C(2h)
site symmetry	2
molecular weight (Da)	230.39
multicomponent	no

Claypool, C. L., Faglioni, F., Goddard, W. A., Gray, H. B., Lewis, N. S. & Marcus, R. A. J. Phys. Chem. B 1997 101, 5978-5995.

Record 33

PTCD1-C4



plane group *p2gg*
crystal class rectangular

Z 2
Z' 0.5
molecular symmetry
site symmetry

C(2h)
weight (Da) 502.56
multicomponent no

Kaneda, Y., Stawasz, M. E., Sampson, D. L. & Parkinson, B. A. Langmuir 2001 17, 6185-6195.

Record 34

dotriacontane



plane group *p2gg*
crystal class rectangular

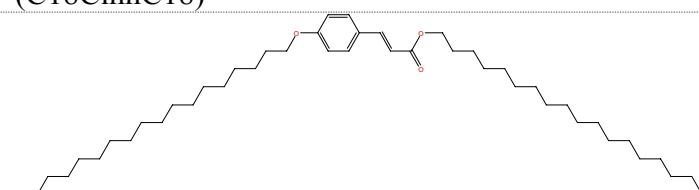
Z 2
Z' 0.5
molecular symmetry
site symmetry

C(2h)
weight (Da) 450.86644
multicomponent no

Bernhardt, R. H., McGonigal, G. C., Schneider, R. & Thomson, D. J. J. Vac. Sci. Technol., A 1990 8, 667-671.

Record 35

(E)-octadecyl 3-(4-(octadecyloxy)phenyl)acrylate
(C18CinnC18)



plane group *p2gg*
crystal class rectangular

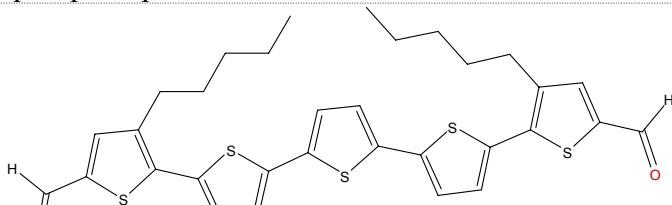
Z 4
Z' 1
molecular symmetry
site symmetry

site symmetry 1
molecular weight (Da) 669.11
multicomponent no

Abdel-Mottaleb, M. M. S., De Feyter, S., Gesquière, A., Sieffert, M., Klapper, M., Müllen, K. & De Schryver, F. C. Nano Lett. 2001 1, 353-359.

Record 36

5,5'''-diformal[3,3'''-dipentyl'2,2':5',2":5",2'''-5",2'''-quinquethiphene



plane group *p2gg*
crystal class rectangular

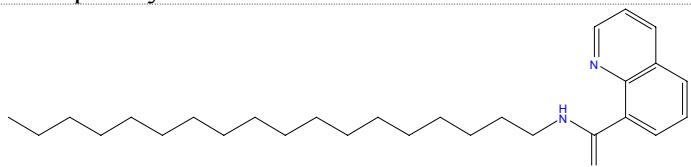
Z 4
Z' 1
molecular symmetry
site symmetry

C(2v)
weight (Da) 608.92
multicomponent no

Müller, H., Petersen, J., Strohmaier, R., Gompf, B., Eisenmenger, W., Vollmer, M. S. & Effenberger, F. Adv. Mater. 1996 8, 733-737.

Record 37

N-8-quinolyloctadecanamide



plane group *p2gg*
crystal class rectangular

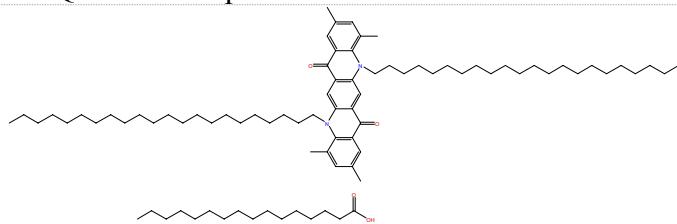
Z 8
Z' 2
molecular symmetry
site symmetry

C(s)
weight (Da) 424.66
multicomponent no

Qian, P., Nanjo, H., Yokoyama, T. & Suzuki, T. M.
Chem. Lett. 1999 1229-1230.

Record 38

1,3,8,10-tetramethyl-N,N'-didocosyl-quinacridone
TmQA-C22 and palmitic acid



plane group	<i>p</i> 2gg
crystal class	rectangular
<i>Z</i>	4
<i>Z'</i>	1
molecular symmetry	C(s), C(2h)
site symmetry	1 2
molecular weight (Da)	1242.02
multicomponent	yes

Mu, Z., Wang, Z., Zhang, X., Ye, K. & Wang, Y. J.
Phys. Chem. B 2004 108, 19955-19959.

Record 39

18-methyl pentatriacontane

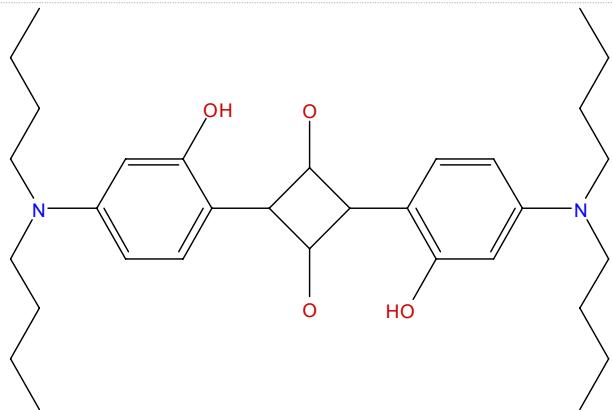


plane group	<i>p</i> 2gg
crystal class	rectangular
<i>Z</i>	4
<i>Z'</i>	1
molecular symmetry	C(s)
site symmetry	1
molecular weight (Da)	506.97
multicomponent	no

Claypool, C. L., Faglioni, F., Matzger, A. J.,
Goddard, W. A. & Lewis, N. S. J. Phys. Chem. B
1999 103, 9690-9699.

Record 40

bis(4-dibutylamino-2-hydroxyphenyl)
squaraine [4-4 SQ]

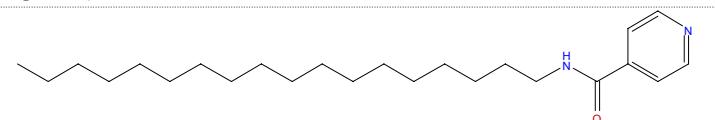


plane group	<i>p</i> 2gg
crystal class	rectangular
<i>Z</i>	2
<i>Z'</i>	0.5
molecular symmetry	C(2h)
site symmetry	2
molecular weight (Da)	526.75
multicomponent	no

Stawasz, M. E., Sampson, D. L. & Parkinson, B. A.
Langmuir 2000 16, 2326-2342.

Record 41

N-octadecyl-isonicotinamide
ODiN

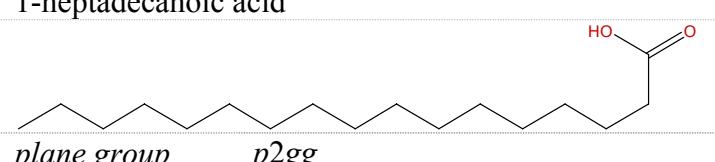


plane group	<i>p</i> 2gg
crystal class	rectangular
<i>Z</i>	4
<i>Z'</i>	1
molecular symmetry	C(s)
site symmetry	1
molecular weight (Da)	374.60
multicomponent	no

Nanjo, H., Qian, P., Yokoyama, T. & Suzuki, T. M.
Jpn. J. Appl. Phys., Part 1 2003 42, 6560-6563.

Record 42

1-heptadecanoic acid



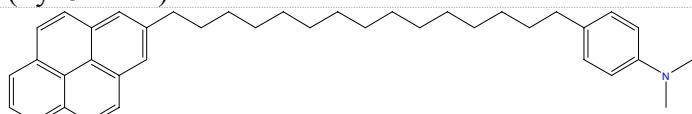
plane group	<i>p</i> 2gg
-------------	--------------

crystal class	rectangular
Z	4
Z'	1
molecular symmetry	C(s)
site symmetry	1
molecular weight (Da)	270.45
multicomponent	no

Yablon, D. G., Wintgens, D. & Flynn, G. W. J. Phys. Chem. B 2002 106, 5470-5475.

Record 43

N,N-dimethyl-p-[15-(1-pyrenyl)pentadecanyl]aniline
(Py15DMA)

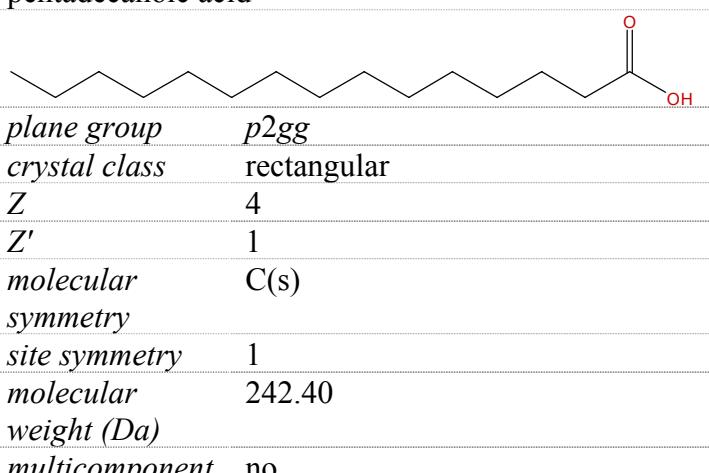


plane group	p2gg
crystal class	rectangular
Z	4
Z'	1
molecular symmetry	C(s)
site symmetry	1
molecular weight (Da)	531.81
multicomponent	no

Nishio, S., Yoshidome, M., Uji-i, H., Hobley, J., Fukumura, H. & Zachariasse, K. A. Chem. Lett. 2004, 33, 1506-1507.

Record 44

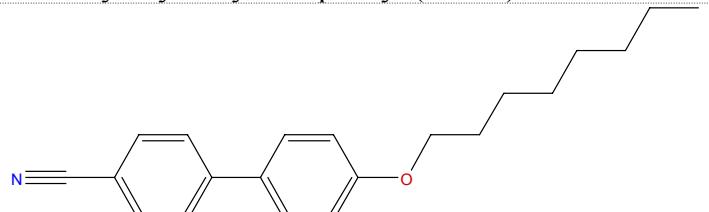
pentadecanoic acid



Hoeppener, S., Chi, L. F. & Fuchs, H. Nano Lett. 2002 2, 459-463.

Record 45

4-n-octyloxy-4'-cyanobiphenyl (8OCB)

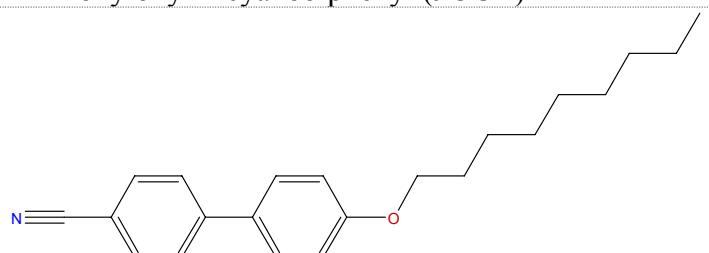


plane group	p2gg
crystal class	rectangular
Z	4
Z'	1
molecular symmetry	C(s)
site symmetry	1
molecular weight (Da)	307.43
multicomponent	no

Taki, S. & Kai, S. Jpn. J. Appl. Phys., Part 1 2001 40, 4187-4192.

Record 46

4-n-nonyloxy-4'-cyanobiphenyl (9OCB)

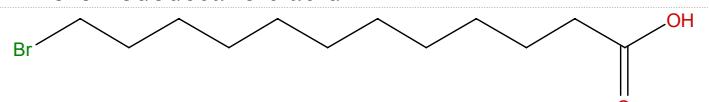


plane group	p2gg
crystal class	rectangular
Z	4
Z'	1
molecular symmetry	C(s)
site symmetry	1
molecular weight (Da)	321.46
multicomponent	no

Taki, S. & Kai, S. Jpn. J. Appl. Phys., Part 1 2001 40, 4187-4192.

Record 47

12-bromododecanoic acid

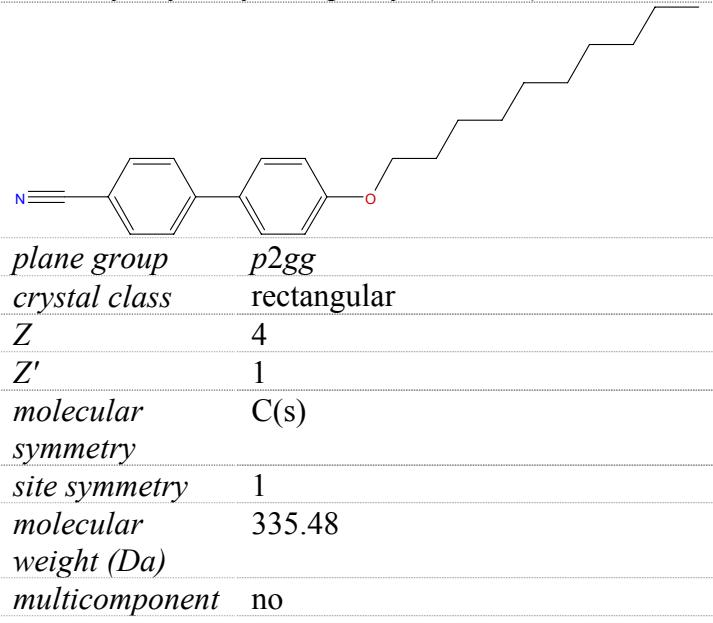


plane group p2gg

<i>crystal class</i>	oblique	<i>molecular weight (Da)</i>	1270.07
<i>Z</i>	8	<i>multicomponent</i>	yes
<i>Z'</i>	2		Mu, Z., Wang, Z., Zhang, X., Ye, K. & Wang, Y. J. Phys. Chem. B 2004 108, 19955-19959.
<i>molecular symmetry</i>	C(s)		
<i>site symmetry</i>	1		
<i>molecular weight (Da)</i>	279.21		
<i>multicomponent</i>	no		
Fang, H. B., Giancarlo, L. C. & Flynn, G. W. J. Phys. Chem. B 1999 103, 5712-5715.			

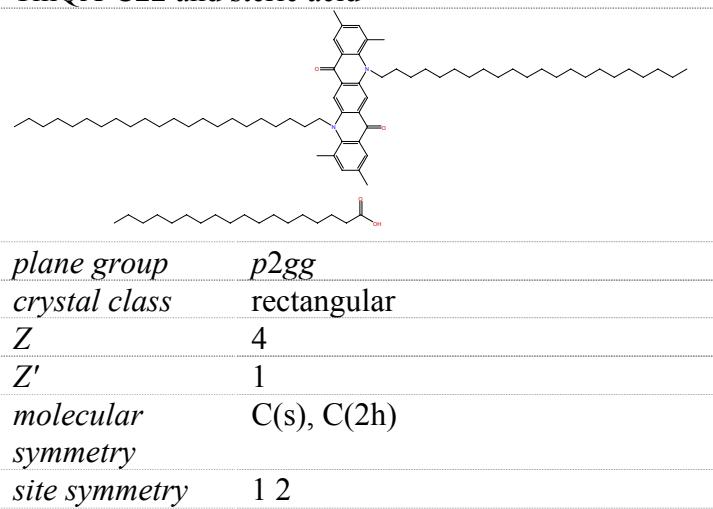
Record 48

4-n-decyloxy-4'-cyanobiphenyl (10OCB)



Record 49

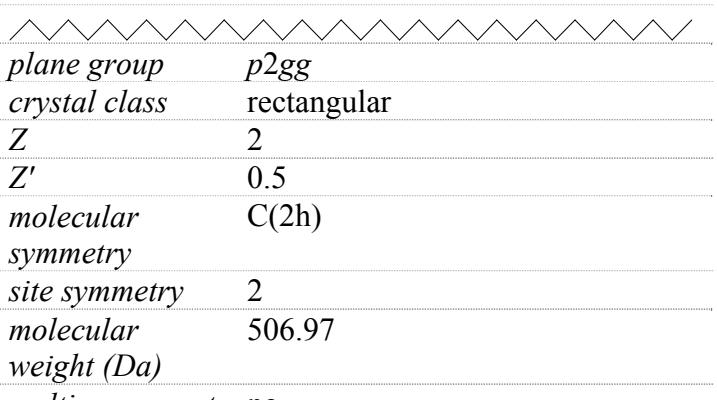
1,3,8,10-tetramethyl-N,N'-didocosyl-quinacridone
TmQA-C22 and steric acid



<i>molecular weight (Da)</i>	1270.07
<i>multicomponent</i>	yes
	Mu, Z., Wang, Z., Zhang, X., Ye, K. & Wang, Y. J. Phys. Chem. B 2004 108, 19955-19959.

Record 50

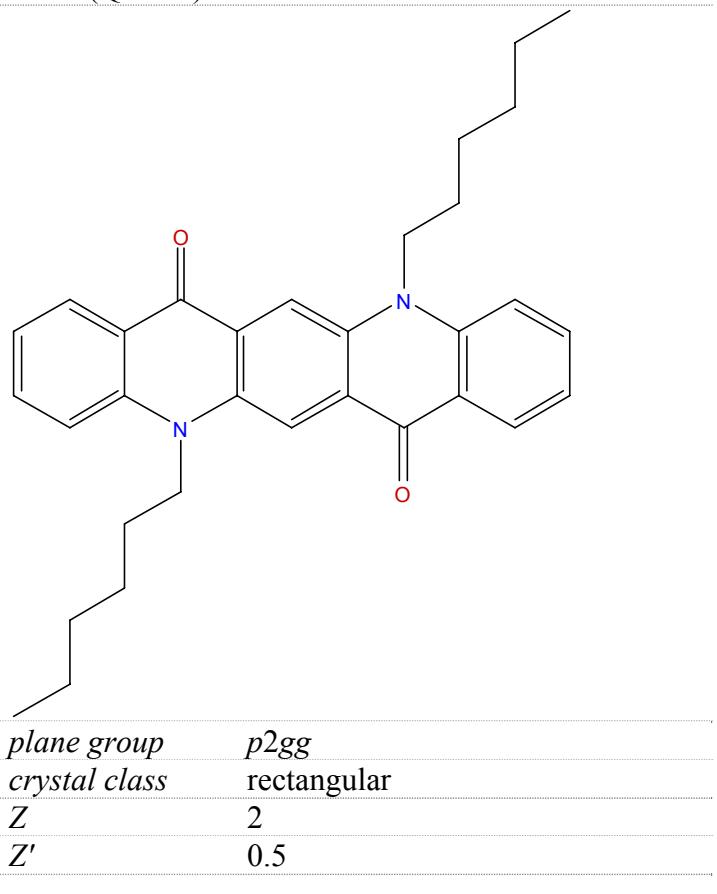
hexatriacontane



Liang, W., Whangbo, M.-H., Wawkuschewski, A., Cantow, H.-J. & Magonov, S. N. Adv. Mater. 1993 5, 817-821.

Record 51

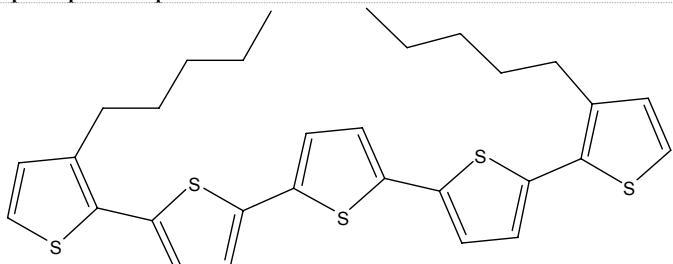
5,12-dihexylquinolino[2,3-b]acridine-7,14(5H,12H)-dione (QA-C6)



molecular symmetry	C(2h)
site symmetry	2
molecular weight (Da)	480.64
multicomponent	no
Qiu, D., Ye, K., Wang, Y., Zou, B., Zhang, X., Lei, S. & Wan, L. Langmuir 2003 19, 678-681.	

Record 52

3,3'''-dipentyl-2,2':5',2":5",2'''-quinquethiophene



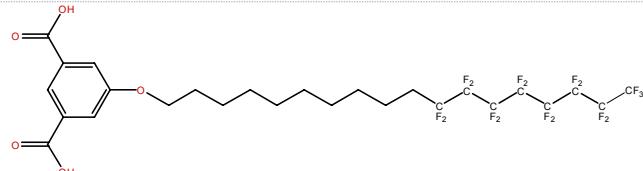
plane group	p2gg
crystal class	rectangular
Z	4
Z'	1
molecular symmetry	C(2v)
site symmetry	1
molecular weight (Da)	552.90
multicomponent	no

Müller, H., Petersen, J., Strohmaier, R., Gompf, B., Eisenmenger, W., Vollmer, M. S. & Effenberger, F. Adv. Mater. 1996 8, 733-737.

Record 53

5-(11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,18-heptadecafluoro-n-octadecyloxy)isophthalic acid

F8H10-ISA



plane group	p2gg
crystal class	rectangular
Z	4
Z'	1
molecular symmetry	C(s)
site symmetry	1

molecular weight (Da)	740.45
multicomponent	no
Abdel-Mottaleb, M. M. S., De Feyter, S., Sieffert, M., Klapper, M., Müllen, K. & De Schryver, F. C. Langmuir 2003 19, 8256-8261.	

Record 54

octacosane (in solution with octadecane and decane)

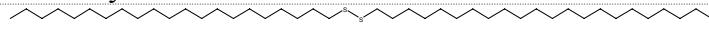


plane group	p2gg
crystal class	rectangular
Z	2
Z'	0.5
molecular symmetry	C(2h)
site symmetry	2
molecular weight (Da)	394.76

Bucher, J.-P., Roeder, H. & Kern, K. Surf. Sci. 1993 289, 370-380.

Record 55

didocosyl disulfide



plane group	p2gg
crystal class	rectangular
Z	2
Z'	0.5
molecular symmetry	C(2v)
site symmetry	2
molecular weight (Da)	669.29
multicomponent	no

Venkataraman, B., Flynn, G. W., Wilbur, J. L., Folkers, J. P. & Whitesides, G. M. J. Phys. Chem. 1995 99, 8684-8689.

Record 56

triacontane



plane group	p2gg
crystal class	rectangular
Z	2
Z'	0.5

molecular symmetry

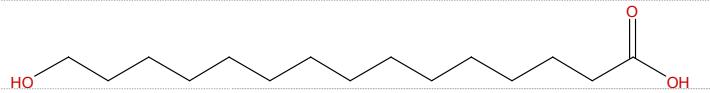
C(2h)

symmetry
site symmetry 2
molecular weight (Da) 422.81
multicomponent no

Venkataraman, B., Breen, J. J. & Flynn, G. W. J. Phys. Chem. 1995 99, 6608-6619.

Record 57

15-hydroxypentadecanoic acid

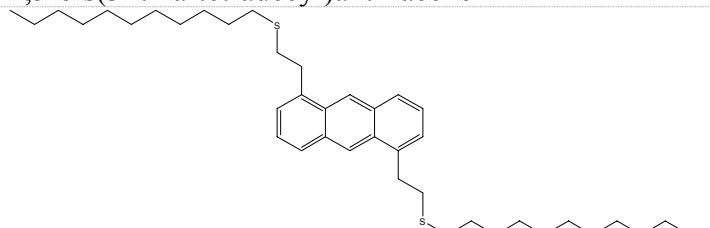


<i>plane group</i>	<i>p2gg</i>
<i>crystal class</i>	rectangular
<i>Z</i>	4
<i>Z'</i>	1
<i>molecular symmetry</i>	C(s)
<i>site symmetry</i>	1
<i>molecular weight (Da)</i>	258.40
<i>multicomponent</i>	no

Wintgens, D., Yablon, D. G. & Flynn, G. W. J. Phys. Chem. B 2003 107, 173-179.

Record 58

1,5-bis(3'-thia-tetradecyl)anthracene



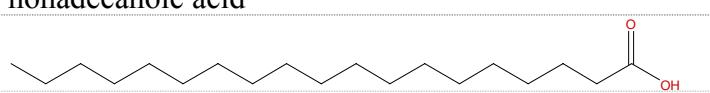
<i>plane group</i>	<i>p2gg</i>
<i>crystal class</i>	rectangular
<i>Z</i>	2
<i>Z'</i>	0.5
<i>molecular symmetry</i>	C(2h)
<i>site symmetry</i>	2
<i>molecular weight (Da)</i>	607.05
<i>multicomponent</i>	no

Wei, Y., Kannappan, K., Flynn, G. W. & Zimmt, M. B. J. Am. Chem. Soc. 2004, 126, 5318-5322.

B. J. Ann. Vol.

Record 50

Record 39

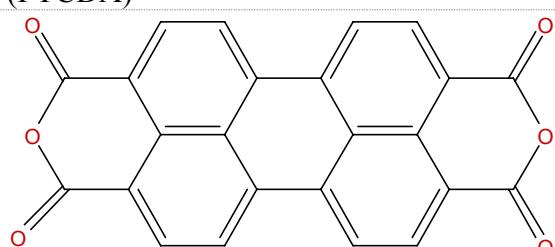


<i>plane group</i>	<i>p2gg</i>
<i>crystal class</i>	rectangular
<i>Z</i>	4
<i>Z'</i>	1
<i>molecular symmetry</i>	C(s)
<i>site symmetry</i>	1
<i>molecular weight (Da)</i>	298.50
<i>multicomponent</i>	no

Hibino, M., Sumi, A., Tsuchiya, H. & Hatta, I. J. Phys. Chem. B 1998 102: 4544-4547.

Record 60

perylene-3,4,9,10-tetracarboxylic-dianhydride (PTCDA)



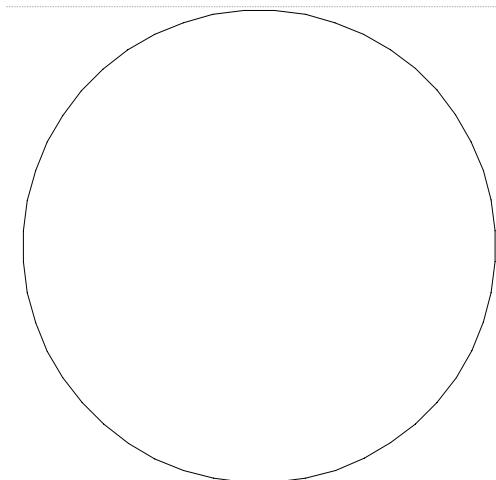
<i>plane group</i>	<i>p2gg</i>
<i>crystal class</i>	rectangular
<i>Z</i>	2
<i>Z'</i>	0.5
<i>molecular symmetry</i>	D(2h)
<i>site symmetry</i>	2
<i>molecular weight (Da)</i>	392.32
<i>multicomponent</i>	no

Takajo, D., Nemoto, T., Kurata, H., Isoda, S., Ozaki, H. & Mazaki, Y. Thin Solid Films 2003 438, 428-432

152.

Record 61

Record of cyclooctatetracontane (CH_2)₄₈



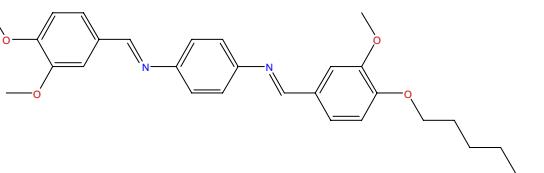
plane group	<i>p</i> 2gg
crystal class	rectangular
<i>Z</i>	2
<i>Z'</i>	0.5
molecular symmetry	D(24h)
site symmetry	2
molecular weight (Da)	673.28
multicomponent	no

Wawkusiewski, A., Cantow, H.-J., Magonov, S. N., Möller, M., Liang, W. & Whangbo, M.-H. *Adv. Mater.* 1993 5, 821-826.

Record 62

N,N'-bis(3-methoxy-4-hexyloxybenzylidene)-1,4-phenylenediamine

(1a):

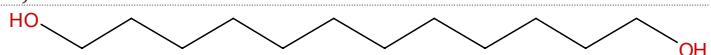


plane group	<i>p</i> 2gg
crystal class	rectangular
<i>Z</i>	2
<i>Z'</i>	0.5
molecular symmetry	C(2v)
site symmetry	2
molecular weight (Da)	544.72
multicomponent	no

Mu, Z.-C., Kong, J.-F., Wang, Y., Ye, L., Yang, G.-D. & Zhang, X. *ChemPhysChem* 2004 5, 202-208.

Record 63

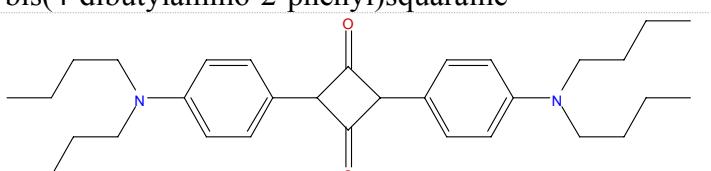
1,12-dodecanediol



plane group	<i>p</i> 2gg
crystal class	rectangular
<i>Z</i>	2
<i>Z'</i>	0.5
molecular symmetry	C(2h)
site symmetry	2
molecular weight (Da)	202.33
multicomponent	no

Record 64

bis(4-dibutylamino-2-phenyl)squaraine

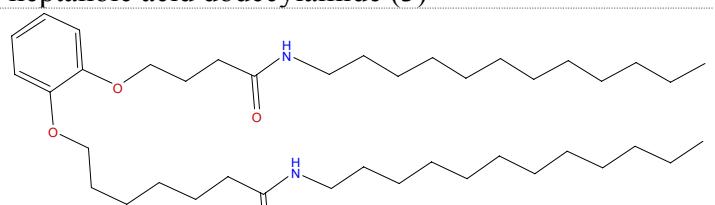


plane group	<i>p</i> 2gg
crystal class	oblique
<i>Z</i>	2
<i>Z'</i>	0.5
molecular symmetry	C(2v)
site symmetry	2
molecular weight (Da)	490.72
multicomponent	no

Yasuda, S. & Shigekawa, H. *Jpn. J. Appl. Phys.*, Part 1 2003 42, 4901-4904.

Record 65

7-[2-(3-Dodecylcarbamoyl-propoxy)-phenoxy]-heptanoic acid dodecylamide (3)



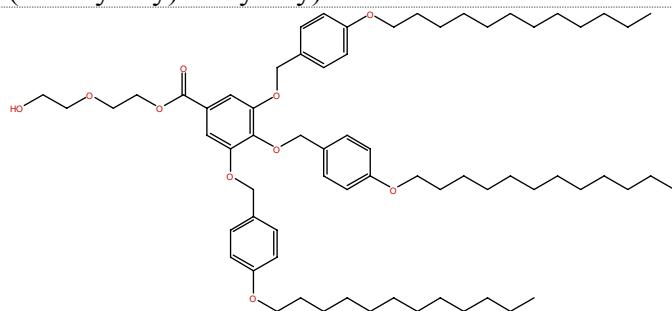
plane group	<i>p</i> 2gg
crystal class	rectangular

Z	4
Z'	1
molecular symmetry	C(s)
site symmetry	1
molecular weight (Da)	659.04
multicomponent	no

Schuurmans, N., Uji-i, H., Mamdouh, W., De Schryver, F. C., Feringa, B. L., Van Esch, J. & De Feyter, S. J. Am. Chem. Soc. 2004 126, 13884-13885.

Record 66

2-(2-hydroxyethoxy)ethyl 3,4,5-tris(4-(dodecyloxy)benzyloxy)benzoate

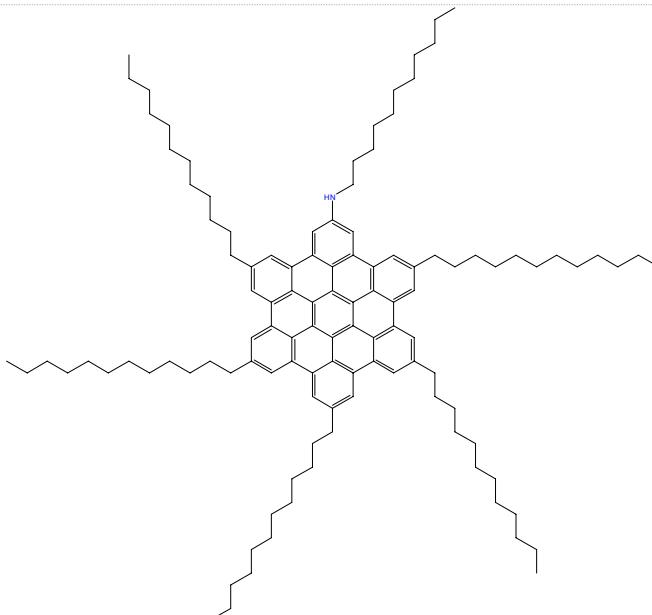


plane group	p2gg
crystal class	rectangular
Z	8
Z'	2
molecular symmetry	C(s)
site symmetry	1 1
molecular weight (Da)	1081.55
multicomponent	no

Mamdouh, W., Uji-i, H., Dulcey, A. E., Percec, V., De Feyter, S. & De Schryver, F. C. Langmuir 2004 20, 7678-7685.

Record 67

2,5,8,11,14-pentadodecyl-17-undecylamine-hexa-peri-hexa-benzocoronene2a (15a)

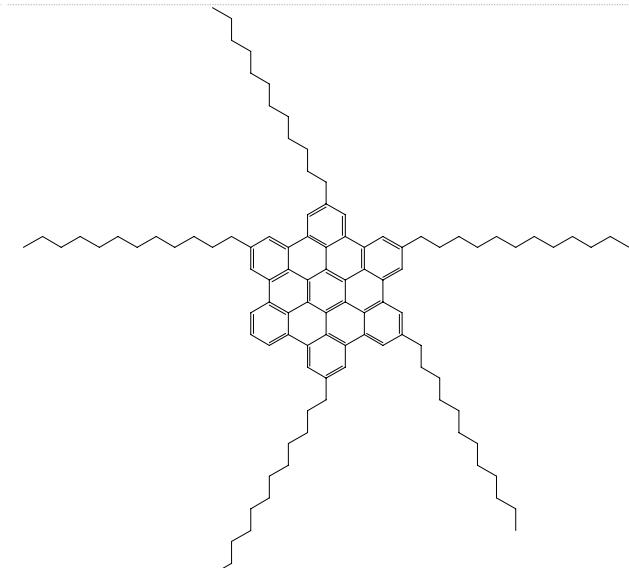
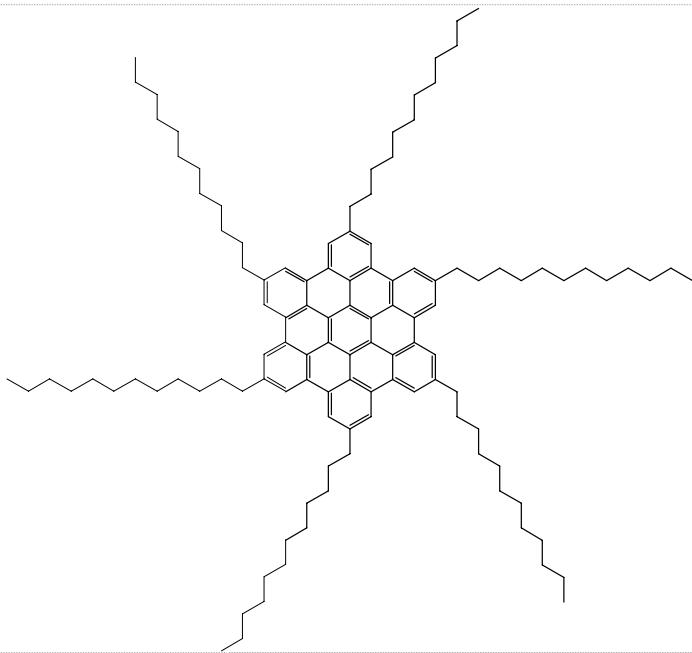


plane group	p2
crystal class	oblique
Z	2
Z'	1
molecular symmetry	C(s)
site symmetry	1
molecular weight (Da)	1533.49
multicomponent	no

Ito, S., Wehmeier, M., Brand, J. D., Kübel, C., Epsch, R., Rabe, J. P. & Müllen, K. Chem.-Eur. J. 2000 6, 4327-4342.

Record 68

2,5,8,11,14,17-hexadodecylhexa-peri-hexa-benzocoronene2a (1b)



<i>plane group</i>	<i>p2</i>
<i>crystal class</i>	oblique
<i>Z</i>	1
<i>Z'</i>	0.5
<i>molecular symmetry</i>	<i>C(6h)</i>
<i>site symmetry</i>	2
<i>molecular weight (Da)</i>	1532.51
<i>multicomponent</i>	no

Ito, S., Wehmeier, M., Brand, J. D., Kübel, C., Epsch, R., Rabe, J. P. & Müllen, K. Chem.-Eur. J. 2000 6, 4327-4342.

Record 69

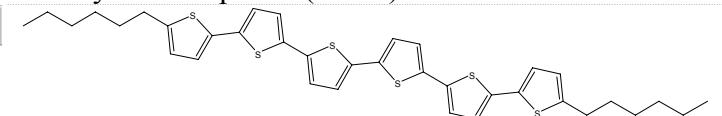
2,5,8,11,14-pentadodecylhexa-peri-hexa-benzocoronene2a (1d)

<i>plane group</i>	<i>p2</i>
<i>crystal class</i>	oblique
<i>Z</i>	2
<i>Z'</i>	1
<i>molecular symmetry</i>	<i>C(s)</i>
<i>site symmetry</i>	1
<i>molecular weight (Da)</i>	1364.19
<i>multicomponent</i>	no

Ito, S., Wehmeier, M., Brand, J. D., Kübel, C., Epsch, R., Rabe, J. P. & Müllen, K. Chem.-Eur. J. 2000 6, 4327-4342.

Record 70

dihexylsexithiophene (T6H2)

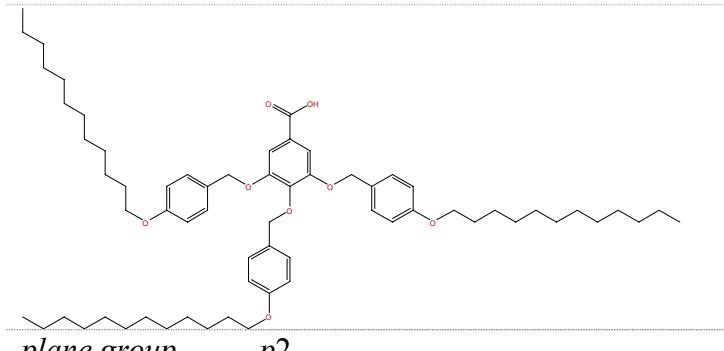


<i>plane group</i>	<i>p2</i>
<i>crystal class</i>	oblique
<i>Z</i>	1
<i>Z'</i>	0.5
<i>molecular symmetry</i>	<i>C(2h)</i>
<i>site symmetry</i>	2
<i>molecular weight (Da)</i>	663.08
<i>multicomponent</i>	no

Stabel, A. & Rabe, J. P. Synth. Met. 1994 67, 47-53.

Record 71

3,4,5-tris[(dodecyloxy)-p-benzyloxy]benzoic acid (5).



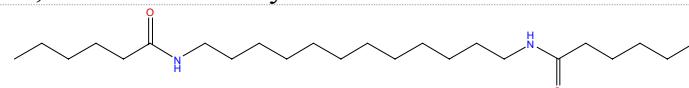
plane group *p*2
crystal class oblique

Z 2
Z' 1
molecular symmetry C(s)
site symmetry 1
molecular weight (Da) 993.44
multicomponent no

Prokhorova, S. A., Sheiko, S. S., Mourran, A., Azumi, R., Beginn, U., Zipp, G., Ahn, C.-H., Holerca, M. N., Percec, V. & Möller, M. Langmuir 2000 16, 6862-6867.

Record 72

N,N'-dodecanomethylenebishexanoamide.



plane group *p*2
crystal class oblique

Z 1
Z' 0.5
molecular symmetry C(2h)

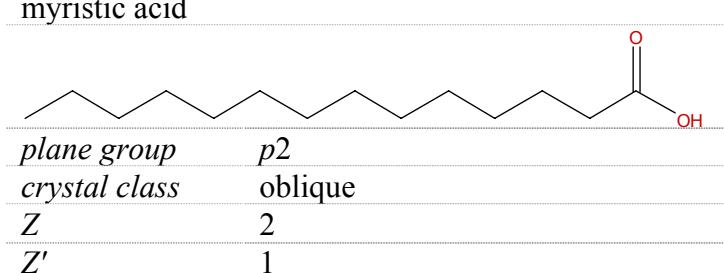
site symmetry 2
molecular weight (Da) 396.65

multicomponent no

Lim, R., Li, J., Li, S. F. Y., Feng, Z. & Valiyaveettil, S. Langmuir 2000 16, 7023-7030.

Record 73

myristic acid



plane group *p*2
crystal class oblique

Z 2
Z' 1

molecular symmetry C(s)

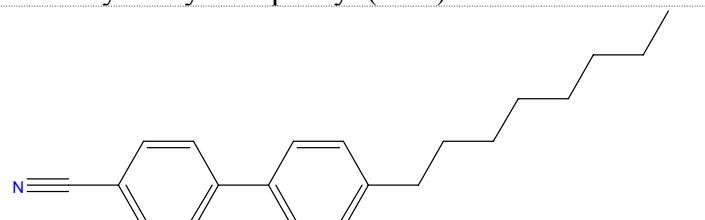
site symmetry 1
molecular weight (Da) 228.37

multicomponent no

Hibino, M., Sumi, A. & Hatta, I. Jpn. J. Appl. Phys., Part 1 1995 34, 3354-3359.

Record 74

4-n-octyl-4'-cyanobiphenyl (8CB)



plane group *p*2
crystal class oblique

Z 2
Z' 1
molecular symmetry C(s)

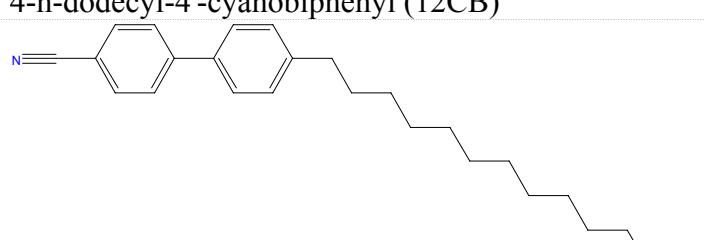
site symmetry 1
molecular weight (Da) 291.43

multicomponent no

Patrick, D. L. & Beebe, T. P. Langmuir 1994 10, 298-302.

Record 75

4-n-dodecyl-4'-cyanobiphenyl (12CB)



plane group *p*2
crystal class oblique

Z 10
Z' 5
molecular symmetry C(s)

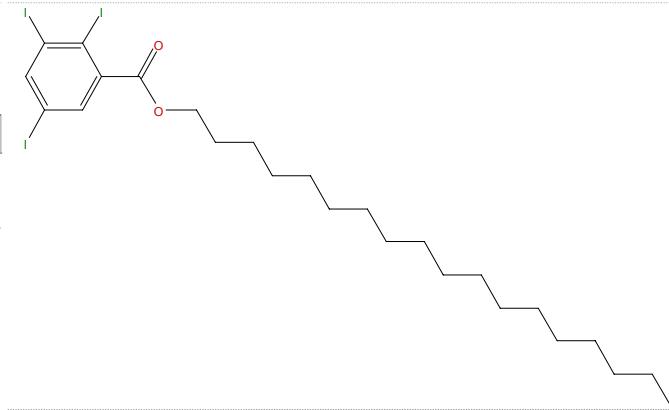
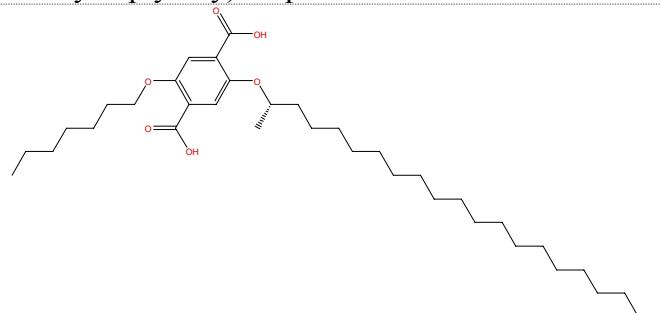
site symmetry 1 1 1 1 1
molecular weight (Da) 347.54

multicomponent no

Freund, J., Probst, O., Grafström, S., Dey, S., Kowalski, J., Neumann, R., Wörtge, M. & zu Putlitz, G. J. Vac. Sci. Technol., B 1994 12, 1914-1917.

Record 76

S-2-eicosyloxy-5-(1-methylheptyloxy)terephthalic acid

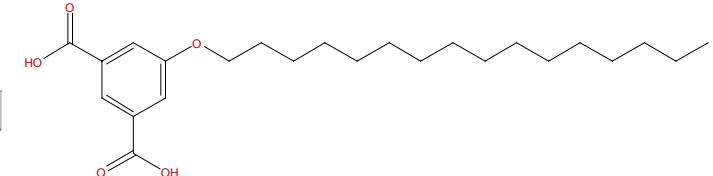


<i>plane group</i>	<i>p2</i>
<i>crystal class</i>	oblique
<i>Z</i>	2
<i>Z'</i>	1
<i>molecular symmetry</i>	C(1)
<i>site symmetry</i>	1
<i>molecular weight (Da)</i>	752.29
<i>multicomponent</i>	no

Rabe, J. P. & Buchholz, S. Makromol. Chem., Macromol. Symp. 1991 50, 261-268.

Record 79

5-(hexadecyloxy)benzene-1,3-dioic acid (C16ISA)



<i>plane group</i>	<i>p2</i>
<i>crystal class</i>	oblique
<i>Z</i>	2
<i>Z'</i>	1
<i>molecular symmetry</i>	C(s)
<i>site symmetry</i>	1
<i>molecular weight (Da)</i>	406.56
<i>multicomponent</i>	no

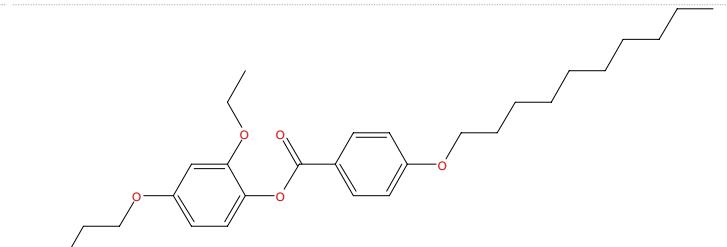
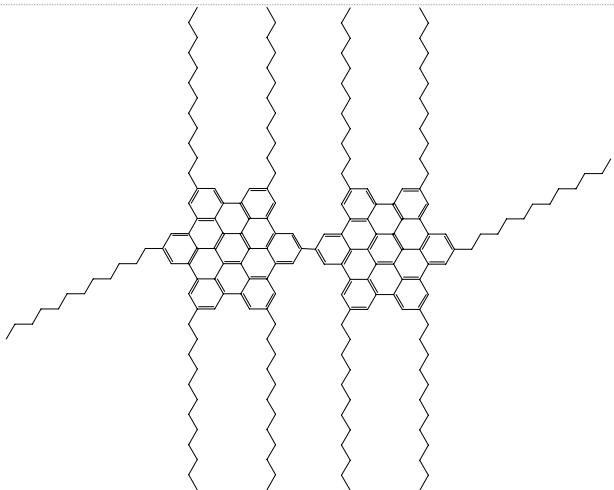
Eichhorst-Gerner, K., Stabel, A., Moessner, G., Declerq, D., Valiyaveettil, S., Enkelmann, V., Müllen, K. & Rabe, J. P. Angew. Chem., Int. Edit. 1996 35, 1492-1495.

Record 78

octadecyl 2,3,5-triiodobenzoate

Record 80

2,2'-Bis(5,8,11,14,17-penta-n-dodecylhexa-peri-hexabenzocoronenyl)
(3a).



<i>plane group</i>	<i>p2</i>
<i>crystal class</i>	oblique
<i>Z</i>	1
<i>Z'</i>	0.5
<i>molecular symmetry</i>	C(2v)
<i>site symmetry</i>	2
<i>molecular weight (Da)</i>	2726.36
<i>multicomponent</i>	no

Ito, S., Herwig, P. T., Böhme, T., Rabe, J. P., Rettig, W. & Müllen, K. J. Am. Chem. Soc. 2000 122, 7698-7706.

Record 81

1,1'-(4,4'-(2,2'-bithiophene-5,5'-diyl)bis(butane-4,1-diyl))bis(3-dodecylurea) T2

<i>plane group</i>	<i>p2</i>
<i>crystal class</i>	oblique
<i>Z</i>	1
<i>Z'</i>	0.5
<i>molecular symmetry</i>	C(2h)
<i>site symmetry</i>	2
<i>molecular weight (Da)</i>	731.19
<i>multicomponent</i>	no

Gesquière, A., Abdel-Mottaleb, M. M. S., De Feyter, S., De Schryver, F. C., Schoonbeek, F., van Esch, J., Kellogg, R. M., Feringa, B. L., Calderone, A., Lazzaroni, R. & Brédas, J. L. Langmuir 2000 16, 10385-10391.

Record 82

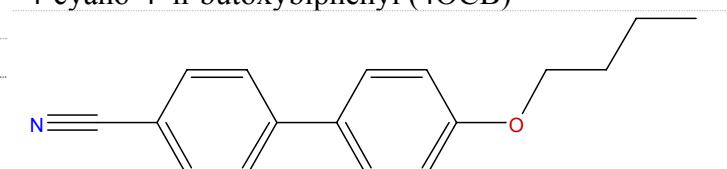
4-((2-ethoxy)propyloxy)phenyl 4-decyloxybenzoate

<i>plane group</i>	<i>p2</i>
<i>crystal class</i>	oblique
<i>Z</i>	2
<i>Z'</i>	1
<i>molecular symmetry</i>	C(s)
<i>site symmetry</i>	1
<i>molecular weight (Da)</i>	470.64
<i>multicomponent</i>	no

Brandow, S. L., Harrison, J. A., DiLella, D. P., Colton, R. J., Pfeiffer, S. & Shashidhar, R. Liq. Cryst. 1993 13, 163-170.

Record 83

4-cyano-4'-n-butoxybiphenyl (4OCB)



<i>plane group</i>	<i>p2</i>
<i>crystal class</i>	oblique
<i>Z</i>	2
<i>Z'</i>	1
<i>molecular symmetry</i>	C(s)
<i>site symmetry</i>	1
<i>molecular weight (Da)</i>	251.32
<i>multicomponent</i>	no

Spong, J. K., Mizes, H. A., Lacomb, L. J., Dovek, M. M., Frommer, J. E. & Foster, J. S. Nature 1989 338, 137-139.

Record 84

1,16-di(1-pyrenyl) hexadecane (Py16Py)



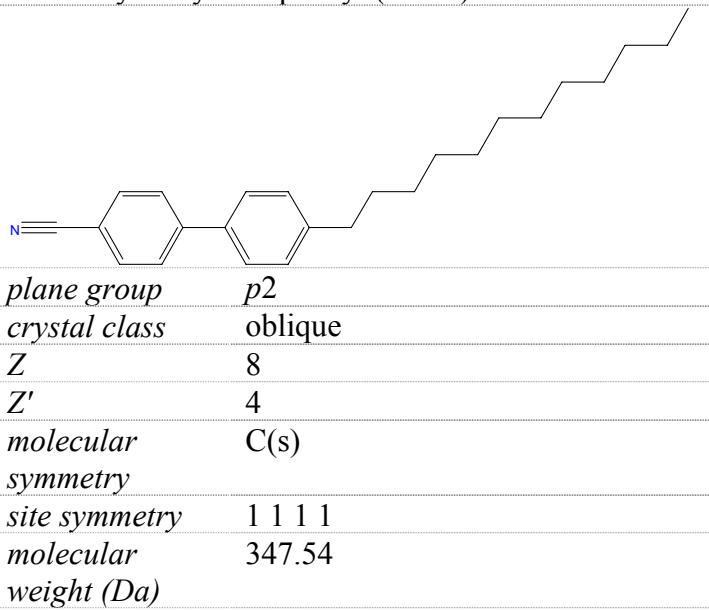
<i>plane group</i>	<i>p2</i>
<i>crystal class</i>	oblique
<i>Z</i>	1

Z'	0.5
<i>molecular symmetry</i>	C(2h)
<i>site symmetry</i>	2
<i>molecular weight (Da)</i>	626.91
<i>multicomponent</i>	no

Nishio, S., Yoshidome, M., Uji-i, H., Hobley, J., Fukumura, H. & Zachariasse, K. A. Chem. Lett. 2004, 33, 1506-1507.

Record 85

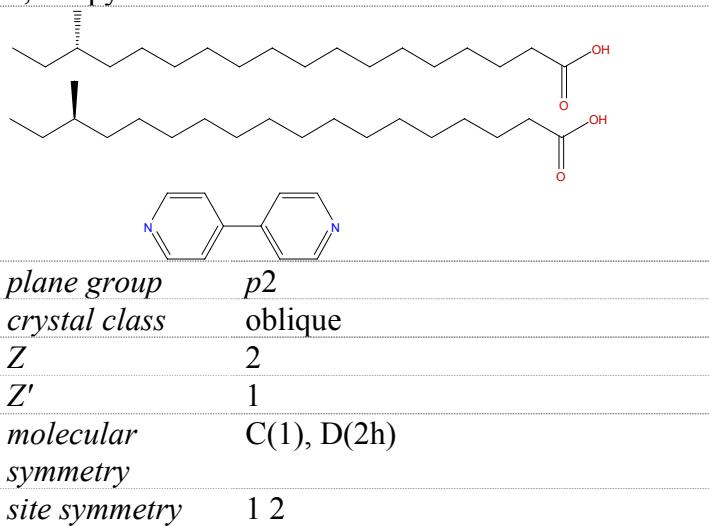
4'-dodecyl-4-cyanobiphenyl (12CB)



Smith, D. P. E., Hörber, J. K. H., Binnig, G. & Nejoh, H. Nature 1990 344, 641-644.

Record 86

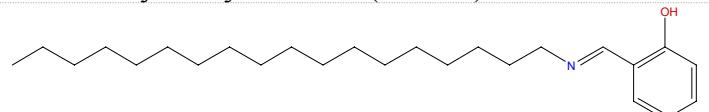
(R,S)-16-methyloctadecanoic acid (16MeC18) with 4,4'-dipyridine



<i>molecular weight (Da)</i>	753.19
<i>multicomponent</i>	yes
Qian, P., Nanjo, H., Sanada, N., Yokoyama, T. & Suzuki, T. M. Chem. Lett. 2000 1118-1119.	

Record 87

N-octadecylsalicylaldimine (C18Sal)

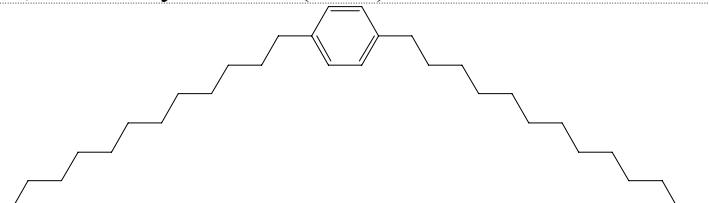


<i>plane group</i>	$p2$
<i>crystal class</i>	oblique
Z	2
Z'	1
<i>molecular symmetry</i>	C(s)
<i>site symmetry</i>	1
<i>molecular weight (Da)</i>	373.62
<i>multicomponent</i>	no

Qian, P., Nanjo, H., Sanada, N., Yokoyama, T. & Suzuki, T. M. Chem. Lett. 2000 1118-1119.

Record 88

1,4-didodecylbenzene (DDB)



<i>plane group</i>	$p2$
<i>crystal class</i>	oblique
Z	1
Z'	0.5
<i>molecular symmetry</i>	C(2h)
<i>site symmetry</i>	2
<i>molecular weight (Da)</i>	414.75
<i>multicomponent</i>	no

Buchholz, S. & Rabe, J. P. J. Vac. Sci. Technol., B 1991 9, 1126-1128.

Record 89

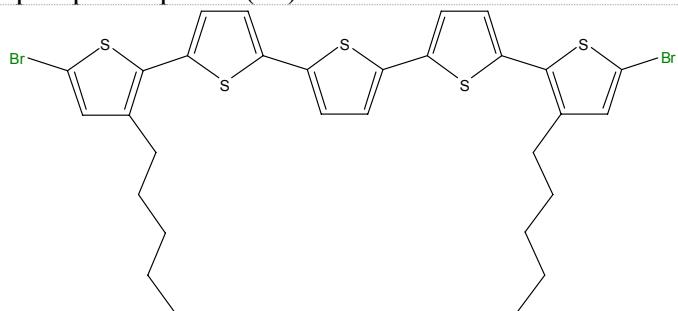
Cu (C18Sal)2

	<i>plane group</i>	<i>p2</i>
	<i>crystal class</i>	oblique
<i>Z</i>	1	
<i>Z'</i>	0.5	
<i>molecular symmetry</i>	C(2h)	
<i>site symmetry</i>	2	
<i>molecular weight (Da)</i>	808.76	
<i>multicomponent</i>	yes	

Qian, P., Nanjo, H., Sanada, N., Yokoyama, T. & Suzuki, T. M. Chem. Lett. 2000 1118-1119.

Record 90

5,5-dibromo-3,3-dipentyl-2,2':5',2:5,2":5",2-quinquethiophene (5b)

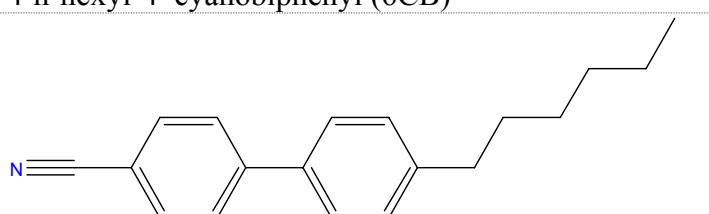


<i>plane group</i>	<i>p2</i>
<i>crystal class</i>	oblique
<i>Z</i>	2
<i>Z'</i>	1
<i>molecular symmetry</i>	C(2v)
<i>site symmetry</i>	1
<i>molecular weight (Da)</i>	710.69
<i>multicomponent</i>	no

Stecher, R., Gompf, B., Münter, J. S. R. & Effenberger, F. Adv. Mater. 1999 11, 927-931.

Record 91

4-n-hexyl-4'-cyanobiphenyl (6CB)

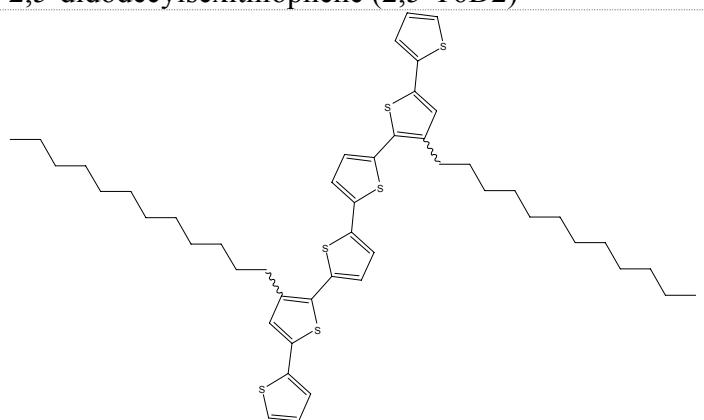


<i>plane group</i>	<i>p2</i>
<i>crystal class</i>	oblique
<i>Z</i>	4
<i>Z'</i>	2
<i>molecular symmetry</i>	C(s)
<i>site symmetry</i>	1 1
<i>molecular weight (Da)</i>	263.38
<i>multicomponent</i>	no

Mizutani, W., Shigeno, M., Ohmi, M., Suginoya, M., Kajimura, K. & Ono, M. J. Vac. Sci. Technol., B 1991 9, 1102-1106.

Record 92

2,5-didodecylsexithiophene (2,5-T6D2)

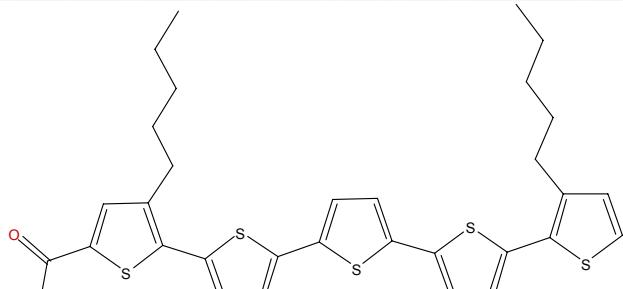


<i>plane group</i>	<i>p2</i>
<i>crystal class</i>	oblique
<i>Z</i>	1
<i>Z'</i>	0.5
<i>molecular symmetry</i>	Depends on stereoisomer
<i>site symmetry</i>	2
<i>molecular weight (Da)</i>	831.40
<i>multicomponent</i>	no

Stabel, A. & Rabe, J. P. Synth. Met. 1994 67, 47-53.

Record 93

3,3-Dipentyl-2,2':5',2:5,2":5",2-quinquethiophene-5-carboxylic (4a)

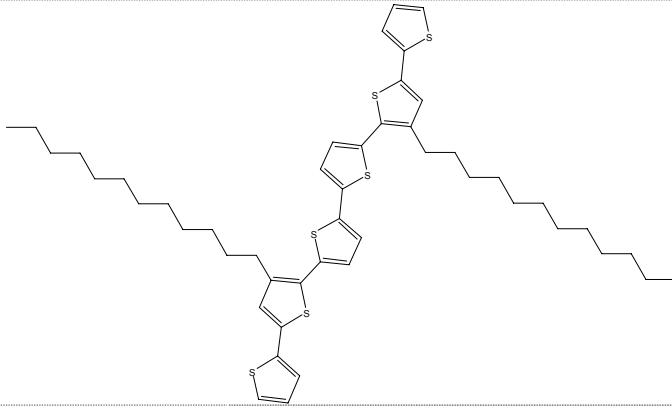


<i>plane group</i>	<i>p2</i>
<i>crystal class</i>	<i>oblique</i>
<i>Z</i>	2
<i>Z'</i>	1
<i>molecular symmetry</i>	<i>C(s)</i>
<i>site symmetry</i>	1
<i>molecular weight (Da)</i>	596.91
<i>multicomponent</i>	no

Stecher, R., Gompf, B., Münter, J. S. R. & Effenberger, F. *Adv. Mater.* 1999 11, 927-931.

Record 94

2,5-didodecylsexithiophene (regioselective 2,5-T6D2)

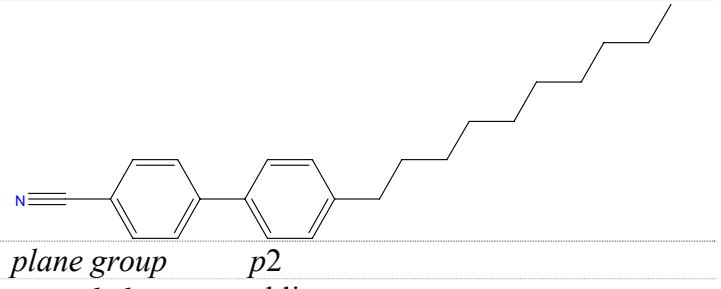


<i>plane group</i>	<i>p2</i>
<i>crystal class</i>	<i>oblique</i>
<i>Z</i>	1
<i>Z'</i>	0.5
<i>molecular symmetry</i>	<i>C(2h)</i>
<i>site symmetry</i>	2
<i>molecular weight (Da)</i>	831.40
<i>multicomponent</i>	no

Stabel, A. & Rabe, J. P. *Synth. Met.* 1994 67, 47-53.

Record 95

4-n-decyl-4'-cyanobiphenyl (10CB)

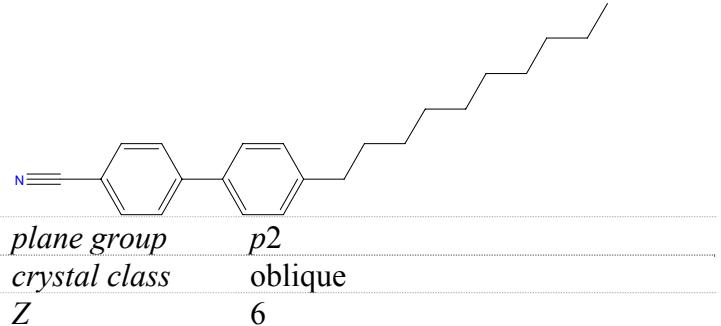


<i>plane group</i>	<i>p2</i>
<i>crystal class</i>	<i>oblique</i>
<i>Z</i>	10
<i>Z'</i>	5
<i>molecular symmetry</i>	<i>C(s)</i>
<i>site symmetry</i>	1 1 1 1 1
<i>molecular weight (Da)</i>	319.48
<i>multicomponent</i>	no

Dai, P., Wang, S.-K., Taub, H., Buckley, J. E., Ehrlich, S. N., Larese, J. Z., Binnig, G. & Smith, D. P. E. *Phys. Rev. B* 1993 47, 7401-7407.

Record 96

4-n-decyl-4'-cyanobiphenyl (10CB)



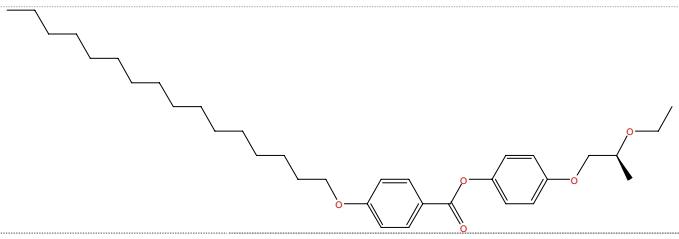
<i>plane group</i>	<i>p2</i>
<i>crystal class</i>	<i>oblique</i>
<i>Z</i>	6
<i>Z'</i>	3
<i>molecular symmetry</i>	<i>C(s)</i>
<i>site symmetry</i>	1 1 1
<i>molecular weight (Da)</i>	319.48
<i>multicomponent</i>	no

Dai, P., Wang, S.-K., Taub, H., Buckley, J. E., Ehrlich, S. N., Larese, J. Z., Binnig, G. & Smith, D. P. E. *Phys. Rev. B* 1993 47, 7401-7407.

Record 97

4-((S)-2-ethoxypropoxy)phenyl (hexadecyloxy)benzoate (w7)

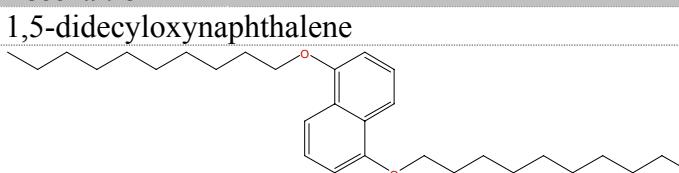
4-



<i>plane group</i>	$p2$
<i>crystal class</i>	oblique
Z	2
Z'	1
<i>molecular symmetry</i>	$C(1)$
<i>site symmetry</i>	1
<i>molecular weight (Da)</i>	540.77

Parks, D. C., Clark, N. A., Walba, D. M. & Beale, P. D. Phys. Rev. Lett. 1993 70, 607-610.

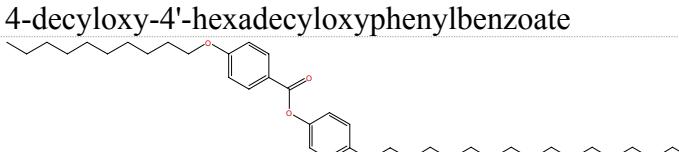
Record 98



<i>plane group</i>	<i>p2</i>
<i>crystal class</i>	<i>oblique</i>
<i>Z</i>	1
<i>Z'</i>	0.5
<i>molecular symmetry</i>	<i>C(2h)</i>
<i>site symmetry</i>	2
<i>molecular weight (Da)</i>	440.70
<i>multicomponent</i>	no
Rabe, J. P., Buchholz, S. & Askadskaya, L.	Synth.

Rabe, J. P., Buchholz, S. & Askadskaya, L. Synth. Met. 1993 54, 339-349.

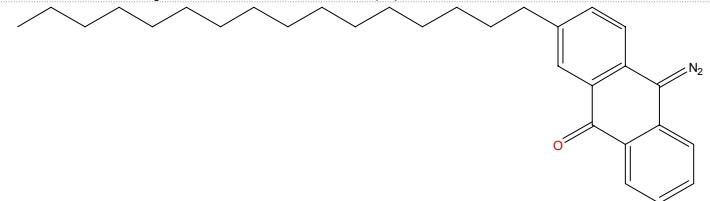
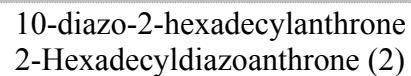
Record 99



<i>plane group</i>	$p2$
<i>crystal class</i>	oblique
Z	4
Z'	2
<i>molecular symmetry</i>	$C(s)$

<i>site symmetry</i>	1 1
<i>molecular weight (Da)</i>	594.91
<i>multicomponent</i>	no
Rabe, J. P., Buchholz, S. & Askadskaya, L. Synth. Met. 1993 54, 339-349.	

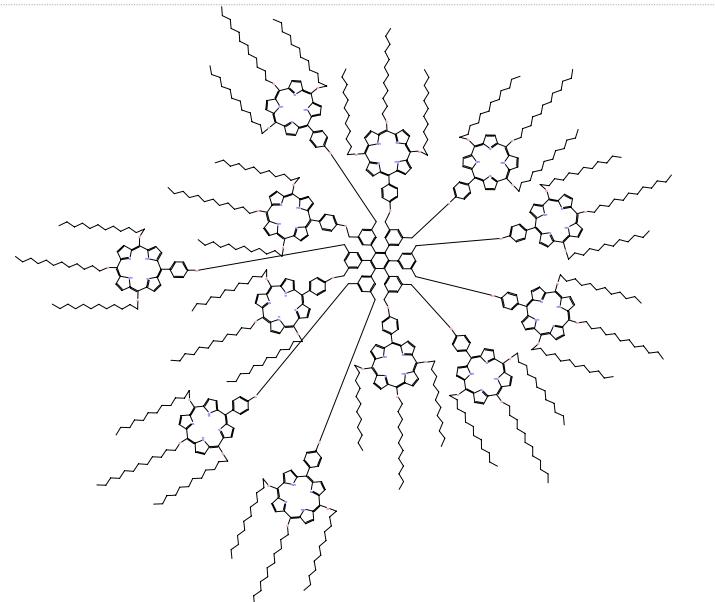
Record 100



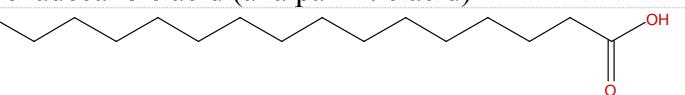
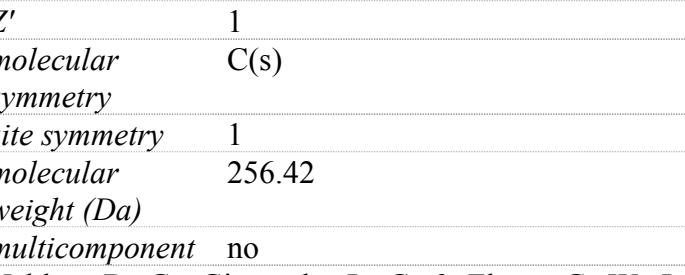
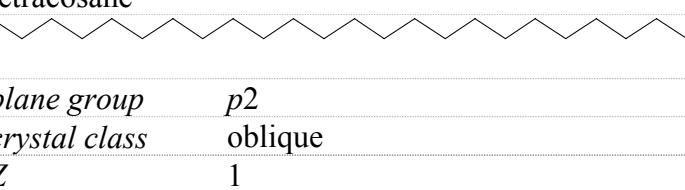
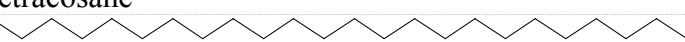
<i>plane group</i>	<i>p2</i>
<i>crystal class</i>	<i>oblique</i>
<i>Z</i>	<i>2</i>
<i>Z'</i>	<i>1</i>
<i>molecular symmetry</i>	<i>C(s)</i>
<i>site symmetry</i>	<i>1</i>
<i>molecular weight (Da)</i>	<i>444.65</i>
<i>multicomponent</i>	<i>no</i>

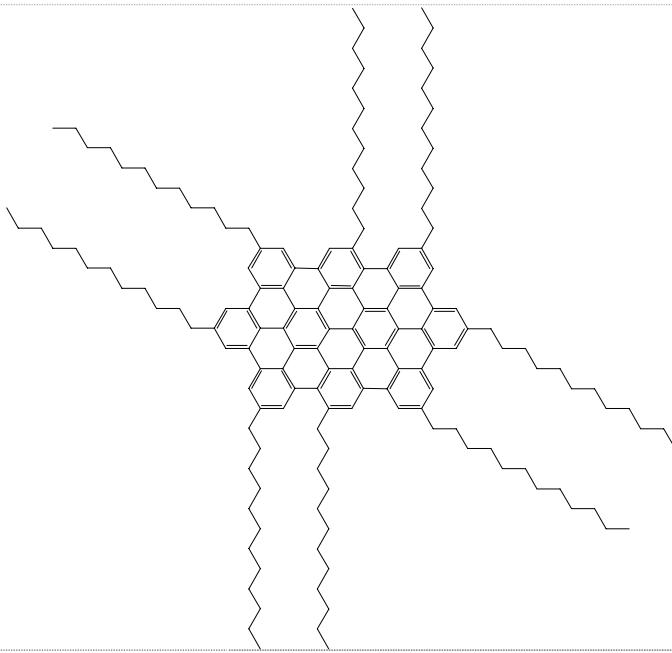
multicomponent no
Heinz, R., Stabel, A., Rabe, J. P., Wegner, G., De Schryver, F. C., Corens, D., Dehaen, W. & Süling, C. Angew. Chem., Int. Edit. 1994 33, 2080-2083.

Record 101



plane group $p2$
crystal class oblique

<i>Z</i>	1	<i>site symmetry</i>	1
<i>Z'</i>	0.5	<i>molecular weight (Da)</i>	247.42
<i>molecular symmetry</i>	D(6h)	<i>multicomponent</i>	no
<i>site symmetry</i>	2	Spong, J. K., Mizes, H. A., Lacomb, L. J., Dovek, M. M., Frommer, J. E. & Foster, J. S. <i>Nature</i> 1989 338, 137-139.	
<i>molecular weight (Da)</i>	12143.64		
<i>multicomponent</i>	no	Record 104	
Lensen, M. C., van Dingenen, S. J. T., Elemans, J. A. A. W., Dijkstra, H. P., van Klink, G. P. M., van Koten, G., Gerritsen, J. W., Speller, S., nolte, R. J. M. & Rowan, A. E. <i>Chem. Commun.</i> 2004 762-763.		hexadecanoic acid (aka palmitic acid)	
Record 102			
5,5-Dihydroxymethyl-3,3-dipentyl-2,2':5',2:5,5',2-quinquethiophene (3b)			
			
<i>plane group</i>	<i>p2</i>	<i>plane group</i>	<i>p2</i>
<i>crystal class</i>	oblique	<i>crystal class</i>	oblique
<i>Z</i>	2	<i>Z</i>	2
<i>Z'</i>	1	<i>Z'</i>	1
<i>molecular symmetry</i>	C(2v)	<i>molecular symmetry</i>	C(s)
<i>site symmetry</i>	1	<i>site symmetry</i>	1
<i>molecular weight (Da)</i>	612.95	<i>molecular weight (Da)</i>	256.42
<i>multicomponent</i>	no	<i>multicomponent</i>	no
Stecher, R., Gompf, B., Münter, J. S. R. & Effenberger, F. <i>Adv. Mater.</i> 1999 11, 927-931.		Yablon, D. G., Giancarlo, L. C. & Flynn, G. W. J. <i>Phys. Chem. B</i> 2000 104, 7627-7635.	
Record 103		Record 105	
4-(4'-n-propylcyclohexyl)-cyanocyclohexane (CCH3)		tetracosane	
			
<i>plane group</i>	<i>p2</i>	<i>plane group</i>	<i>p2</i>
<i>crystal class</i>	oblique	<i>crystal class</i>	oblique
<i>Z</i>	1	<i>Z</i>	1
<i>Z'</i>	0.5	<i>Z'</i>	0.5
<i>molecular symmetry</i>	C(2h)	<i>molecular symmetry</i>	C(2h)
<i>site symmetry</i>	2	<i>site symmetry</i>	2
<i>molecular weight (Da)</i>	338.65	<i>molecular weight (Da)</i>	338.65
<i>multicomponent</i>	no	<i>multicomponent</i>	no
Askadskaya, L. & Rabe, J. P. <i>Phys. Rev. Lett.</i> 1992 69, 1395-1398.			
Record 106			
3c			

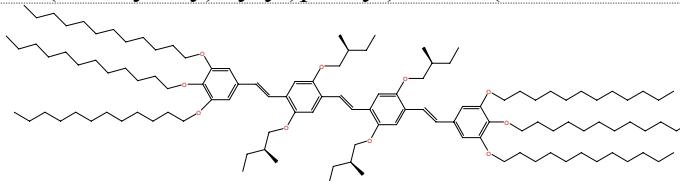


<i>plane group</i>	<i>p2</i>
<i>crystal class</i>	oblique
<i>Z</i>	2
<i>Z'</i>	1
<i>molecular symmetry</i>	<i>C(2h)</i>
<i>site symmetry</i>	1
<i>molecular weight (Da)</i>	2089.37
<i>multicomponent</i>	no

Iyer, V. S., Yoshimura, K., Enkelmann, V., Epsch, R., Rabe, J. P. & Müllen, K. *Angew. Chem., Int. Edit.* 1998 37, 2696-2699.

Record 107

(E)-1,2-bis(2,5-bis((S)-2-methylbutoxy)-4-(3,4,5-tris(dodecyloxy)styryl)phenyl)ethene (OPV-tetramer)



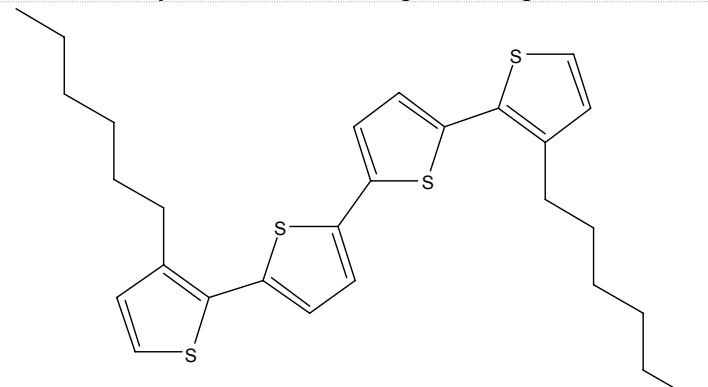
<i>plane group</i>	<i>p2</i>
<i>crystal class</i>	oblique
<i>Z</i>	1
<i>Z'</i>	0.5
<i>molecular symmetry</i>	<i>C(2)</i>
<i>site symmetry</i>	2
<i>molecular weight (Da)</i>	1834.95

multicomponent no

Gesqui re, A., Jonkheijm, P., Schenning, A., Mena-Osteritz, E., B uerle, P., De Feyter, S., De Schryver, F. C. & Meijer, E. W. J. *Mater. Chem.* 2003 13, 2164-2167.

Record 108

3,3'''-Dihexyl-2,2':5',2":5",2'''-quaterthiophene

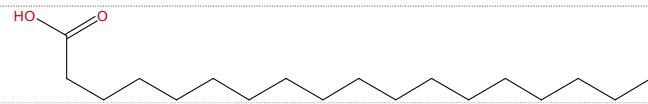


<i>plane group</i>	<i>p2</i>
<i>crystal class</i>	oblique
<i>Z</i>	1
<i>Z'</i>	0.5
<i>molecular symmetry</i>	<i>C(2h)</i>
<i>site symmetry</i>	2
<i>molecular weight (Da)</i>	498.83
<i>multicomponent</i>	no

Azumi, R., G tz, G., Debaerdemaeker, T. & B uerle, P. *Chem.-Eur. J.* 2000 6, 735-744.

Record 109

steric acid
1-octadecanoic acid

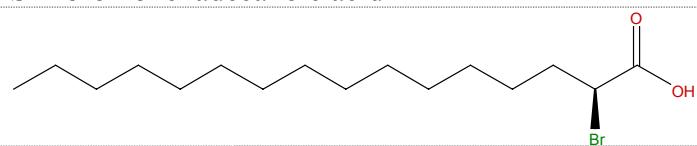


<i>plane group</i>	<i>p2</i>
<i>crystal class</i>	oblique
<i>Z</i>	2
<i>Z'</i>	1
<i>molecular symmetry</i>	<i>C(s)</i>
<i>site symmetry</i>	1
<i>molecular weight (Da)</i>	284.48
<i>multicomponent</i>	no

Rabe, J. P. & Buchholz, S. *Science* 1991 253, 424-427.

Record 110

S-2-bromohexadecanoic acid



crystal class

oblique

Z

2

Z'

1

molecular

C(2v)

symmetry

site symmetry

1

molecular

943.70

weight (Da)

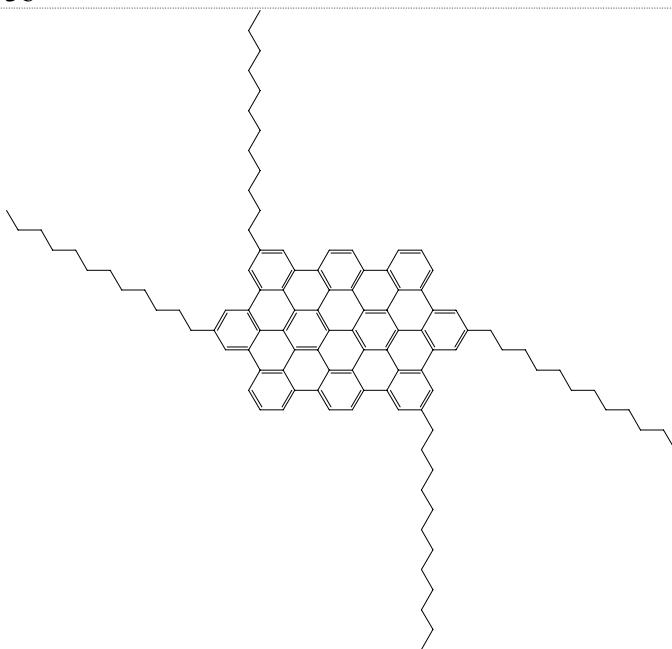
multicomponent

no

Gomar-Nadal, E., Abdel-Mottaleb, M. M. S., De Feyter, S., Veciana, J., Rovira, C., Amabilino, D. B. & De Schryver, F. C. *Chem. Commun.* 2003 906-907.

Record 113

3b



plane group

p2

crystal class

oblique

Z

2

Z'

1

molecular

C(s)

symmetry

site symmetry

1

molecular

340.58

weight (Da)

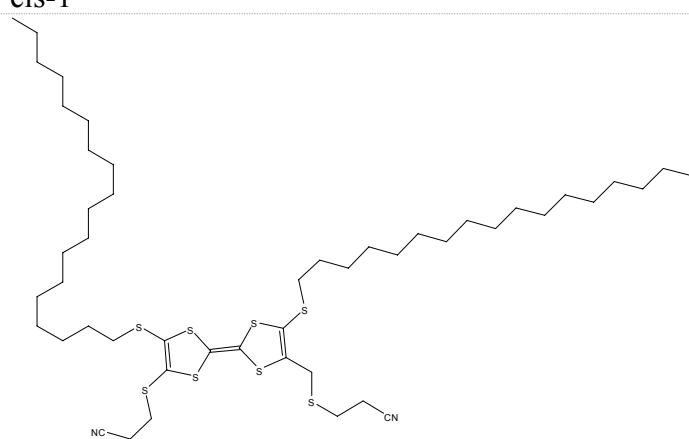
multicomponent

no

Hibino, M., Sumi, A., Tsuchiya, H. & Hatta, I. J. *Phys. Chem. B* 1998 102, 4544-4547.

Record 112

cis-1



plane group

p2

crystal class

oblique

Z

2

Z'

1

molecular

C(2h)

symmetry

site symmetry

2 2

molecular

1416.09

weight (Da)

multicomponent

no

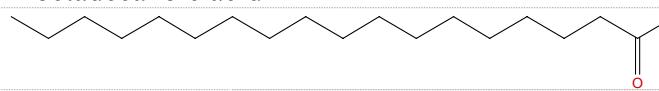
Iyer, V. S., Yoshimura, K., Enkelmann, V., Epsch, R., Rabe, J. P. & Müllen, K. *Angew. Chem., Int. Edit.* 1998 37, 2696-2699.

Record 114

plane group

p2

steric acid
1-octadecanoic acid



plane group p2

crystal class oblique

Z 2

Z' 1

molecular C(s)

symmetry

site symmetry 1

molecular weight (Da) 284.48

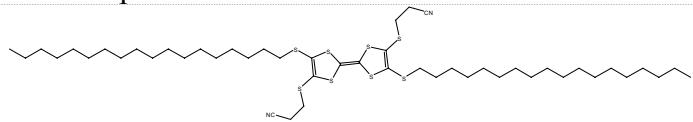
weight (Da)

multicomponent no

Olson, J. A. & Bühlmann, P. Anal. Chem. 2003 75, 1089-1093.

Record 115

trans - alpha



plane group p2

crystal class oblique

Z 1

Z' 0.5

molecular C(2h)

symmetry

site symmetry 1

molecular weight (Da) 943.70

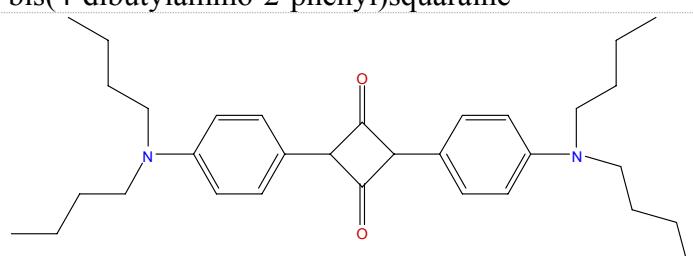
weight (Da)

multicomponent no

Gomar-Nadal, E., Abdel-Mottaleb, M. M. S., De Feyter, S., Veciana, J., Rovira, C., Amabilino, D. B. & De Schryver, F. C. Chem. Commun. 2003 906-907.

Record 116

bis(4-dibutylamino-2-phenyl)squarene



plane group p2

crystal class oblique

Z 1

Z' 0.5

molecular C(2v)

symmetry

site symmetry 2

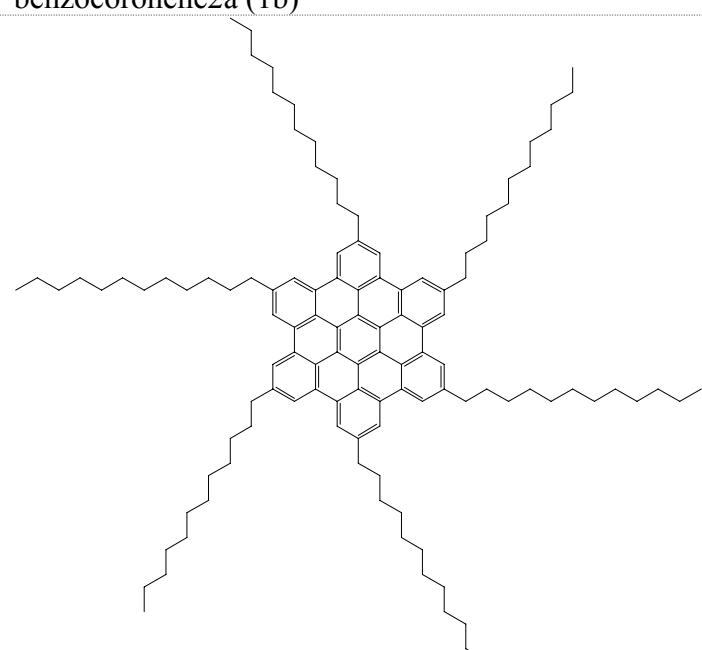
molecular weight (Da) 490.72

multicomponent no

Yasuda, S. & Shigekawa, H. Jpn. J. Appl. Phys., Part 1 2003 42, 4901-4904.

Record 117

2,5,8,11,14,17-hexadodecylhexa-peri-hexa-benzocoronene2a (1b)



plane group p2

crystal class oblique

Z 2

Z' 1

molecular C(6h)

symmetry

site symmetry 1

molecular weight (Da) 1532.51

weight (Da)

multicomponent no

Ito, S., Wehmeier, M., Brand, J. D., Kübel, C., Epsch, R., Rabe, J. P. & Müllen, K. Chem.-Eur. J. 2000 6, 4327-4342.

Record 118

racemic - 12-hydroxy-octadecanoic acid

plane group	p2
crystal class	oblique
Z	2
Z'	1
molecular symmetry	C(1), C(1)
site symmetry	1 1
molecular weight (Da)	600.95
multicomponent	yes

Qian, P., Nanjo, H., Yokoyama, T. & Suzuki, T. M. Chem. Commun. 1999 1197-1198.

Record 119

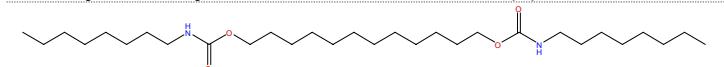
racemic - 12-hydroxy-octadecanoic acid and
bipyridine

plane group	p2
crystal class	oblique
Z	2
Z'	1
molecular symmetry	C(1), D(2h)
site symmetry	1 2
molecular weight (Da)	757.14
multicomponent	yes

Qian, P., Nanjo, H., Yokoyama, T. & Suzuki, T. M. Chem. Commun. 1999 1197-1198.

Record 120

diethyl dodecyl dicarbamate N8-O12 (4)



plane group	p2
crystal class	oblique
Z	1
Z'	0.5
molecular symmetry	C(2h)
site symmetry	2
molecular weight (Da)	512.81
multicomponent	no

Matzger, A. J. & Kim, K. Polym. Mater. Sci. Eng. 2003 89, 825-826.

Record 121

4-heptyl-4'-cyanobiphenyl (7CB)

plane group	p2
crystal class	oblique
Z	4
Z'	2
molecular symmetry	C(s)
site symmetry	1 1
molecular weight (Da)	277.40
multicomponent	no

Schulze, J., Stevens, F. & Beebe, T. P. J. Phys. Chem. B 1998 102, 5298-5302.

Record 122

3',5'-O-Didecanoyl-8-oxo-2'-deoxyguanosine

plane group	p2
crystal class	oblique
Z	4
Z'	2
molecular symmetry	C(1)
site symmetry	1 1

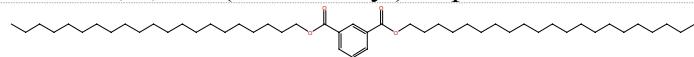
molecular weight (Da)

multicomponent no

Giorgi, T., Lena, S., Mariani, P., Cremonini, M. A., Masiero, S., Pieraccini, S., Rabe, J. P., Samorí, P., Spada, G. P. & Gottarelli, G. J. Am. Chem. Soc. 2003 125, 14741-14749.

Record 123

Ester-23; 1,3-di-(1-heneicosyl) isophthalate



plane group p2

crystal class oblique

Z 2

Z' 1

molecular symmetry C(2v)

site symmetry

1

molecular weight (Da) 755.25

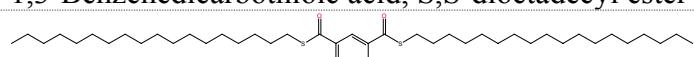
multicomponent no

Plass, K. E., Kim, K. & Matzger, A. J. "Two-dimensional crystallization: self-assembly, pseudopolymorphism, and symmetry-independent molecules." J. Am. Chem. Soc. 2004 126, 9042-9053.

Record 124

Thioester-20

1,3-Benzenedicarbothioic acid, S,S-dioctadecyl ester



plane group p2

crystal class oblique

Z 2

Z' 1

molecular symmetry C(2v)

site symmetry

1

molecular weight (Da) 703.22

multicomponent no

Plass, K. E., Kim, K. & Matzger, A. J. J. Am. Chem. Soc. 2004 126, 9042-9053.

Record 125

Ester-19; 1,3-di-(1-heptadecyl) isophthalate



plane group p2

crystal class oblique

Z 2

Z' 1

molecular symmetry C(2v)

site symmetry 1

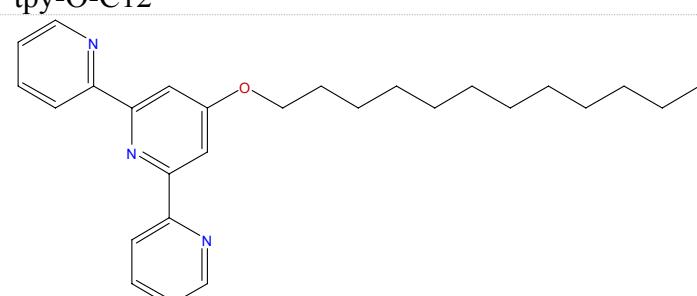
molecular weight (Da) 643.03

multicomponent no

Plass, K. E., Kim, K. & Matzger, A. J. J. Am. Chem. Soc. 2004 126, 9042-9053.

Record 126

tpy-O-C12



plane group p2

crystal class oblique

Z 2

Z' 1

molecular symmetry C(s)

site symmetry

1

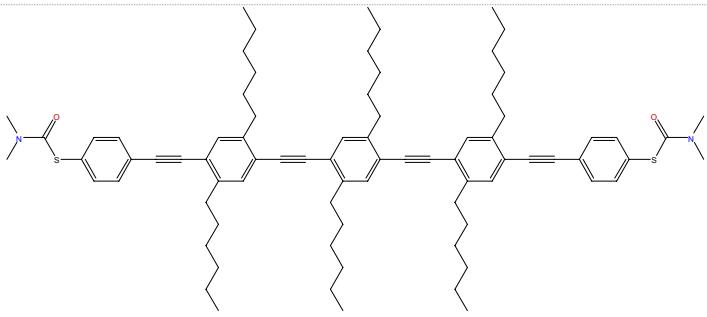
molecular weight (Da) 417.59

multicomponent no

Wouters, D., Höppener, S., Lunkwitz, R., Chi, L. F., Fuchs, H. & Schubert, U. S. Adv. Funct. Mater. 2003 13, 277-280.

Record 127

alpha-[[4-[(N,N-Dimethylcarbamoyl)thio]phenyl]ethynyl]--[4-[(N,N-dimethylcarbamoyl)thio]phenyl]-ter[(2,5-dihexylphenylene-1,4)ethynylene]]

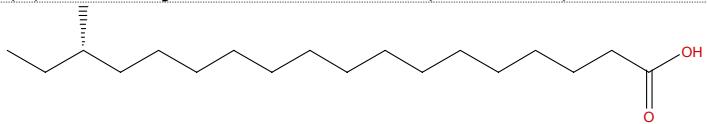


<i>plane group</i>	<i>p2</i>
<i>crystal class</i>	oblique
<i>Z</i>	1
<i>Z'</i>	0.5
<i>molecular symmetry</i>	<i>C(2h)</i>
<i>site symmetry</i>	2
<i>molecular weight (Da)</i>	1189.82
<i>multicomponent</i>	no

Samorí, P., Francke, V., Enkelmann, V., Müllen, K. & Rabe, J. P. *Chem. Mater.* 2003 15, 1032-1039.

Record 128

(S)-16-methyloctadecanoic acid (16MeC18)

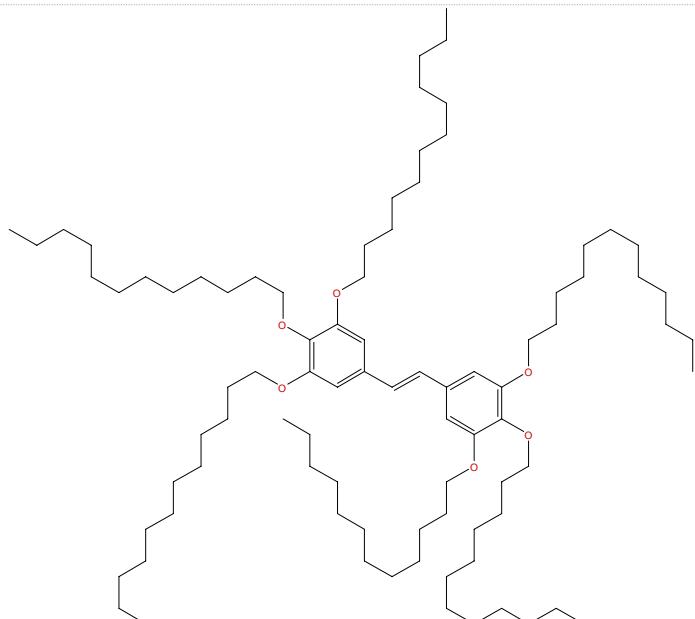


<i>plane group</i>	<i>p2</i>
<i>crystal class</i>	oblique
<i>Z</i>	2
<i>Z'</i>	1
<i>molecular symmetry</i>	<i>C(1)</i>
<i>site symmetry</i>	1
<i>molecular weight (Da)</i>	298.50
<i>multicomponent</i>	no

Qian, P., Nanjo, H., Sanada, N., Yokoyama, T. & Suzuki, T. M. *Chem. Lett.* 2000 1118-1119.

Record 129

(E)-1,2-bis(3,4,5-tris(dodecyloxy)phenyl)ethene
(OPV-dimer)

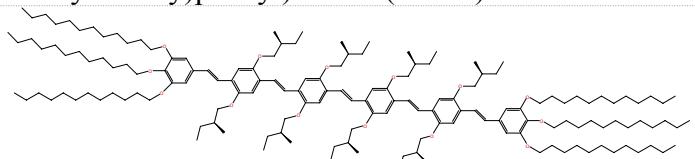


<i>plane group</i>	<i>p2</i>
<i>crystal class</i>	oblique
<i>Z</i>	1
<i>Z'</i>	0.5
<i>molecular symmetry</i>	<i>C(2h)</i>
<i>site symmetry</i>	2
<i>molecular weight (Da)</i>	1286.16
<i>multicomponent</i>	no

Gesquière, A., Jonkheijm, P., Schenning, A., Menas-Osteritz, E., Bäuerle, P., De Feyter, S., De Schryver, F. C. & Meijer, E. W. J. *Mater. Chem.* 2003 13, 2164-2167.

Record 130

(E)-1,2-bis(4-(2,5-bis((S)-2-methylbutoxy)-4-(3,4,5-tris(dodecyloxy)styryl)styryl)-2,5-bis((S)-2-methylbutoxy)phenyl)ethene (OPV6)



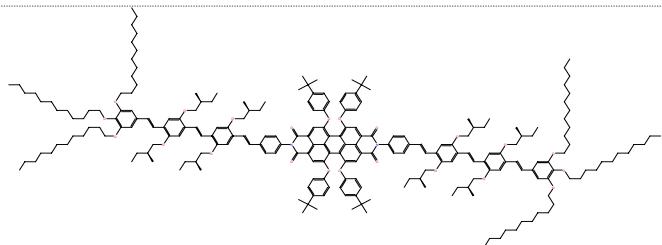
<i>plane group</i>	<i>p2</i>
<i>crystal class</i>	oblique
<i>Z</i>	1
<i>Z'</i>	0.5
<i>molecular symmetry</i>	<i>C(2)</i>
<i>site symmetry</i>	2
<i>molecular weight (Da)</i>	2383.75

weight (Da)

multicomponent no

Gesquière, A., Jonkheijm, P., Schenning, A., Mena-Osteritz, E., Bäuerle, P., De Feyter, S., De Schryver, F. C. & Meijer, E. W. J. Mater. Chem. 2003 13, 2164-2167.

Record 131



plane group

p2

crystal class

oblique

Z

1

Z'

0.5

molecular symmetry

C(2)

site symmetry

2

molecular weight (Da)

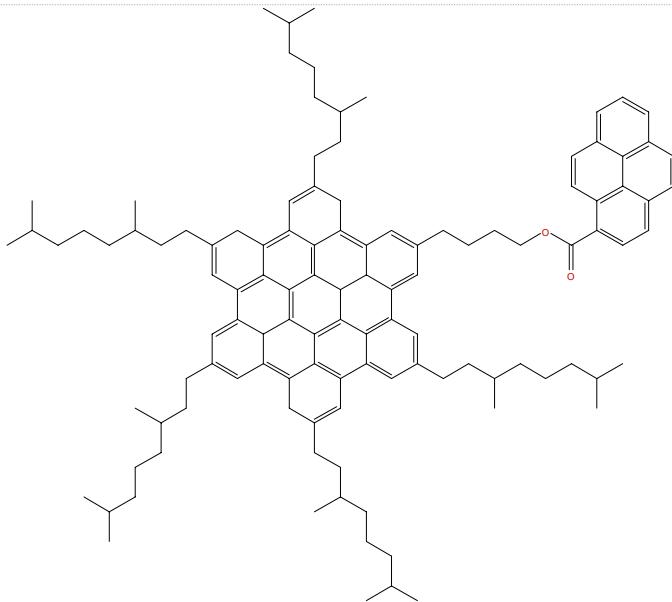
3543.11

multicomponent no

Miura, A., Chen, Z., Uji-i, H., De Feyter, S., Zdanowska, M., Jonkheijm, P., Schenning, A. P. H. J., Meijer, E. W., Würthner, F. & De Schryver, F. C. J. Am. Chem. Soc. 2003 125, 14968-14969.

Record 132

4-(5,8,11,14,17-pentakis(3,7-dimethyloctyl)-3a1,4,7,9b1,13,-hexahydrohexabeno[bc,ef,hi,kl,no,qr]coronen-2-yl)butyl pyrene-1-carboxylate



plane group

p2

crystal class

oblique

Z

2

Z'

1

molecular symmetry

C(1)

site symmetry

1

molecular weight (Da)

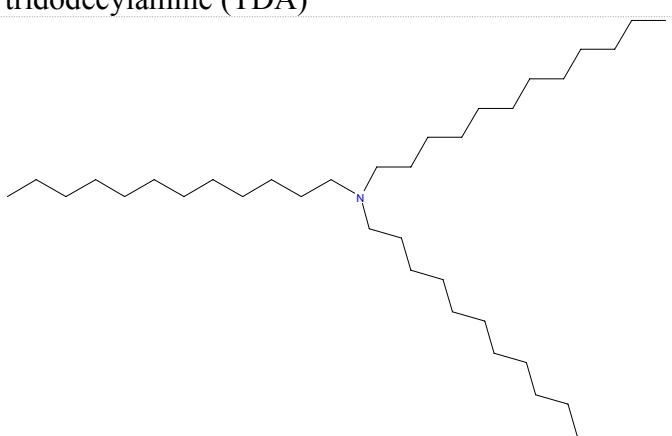
1530.32

multicomponent no

Tchebotareva, N., Yin, X., Watson, M. D., Samorí, P., Rabe, J. P. & Müllen, K. J. Am. Chem. Soc. 2003 125, 9734-9739.

Record 133

tridodecylamine (TDA)



plane group

p2

crystal class

oblique

Z

2

Z'

1

molecular symmetry

C(3)

symmetry

site symmetry 1

molecular 521.99

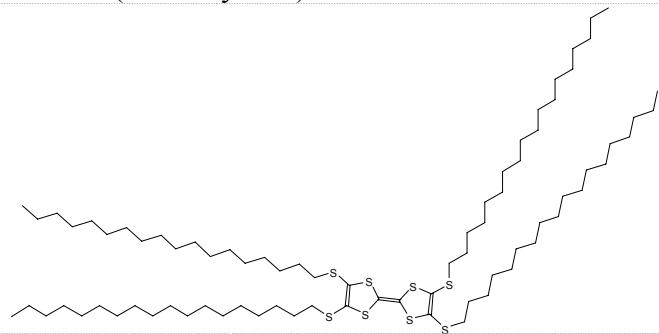
weight (Da)

multicomponent no

Lei, S.-B., Wang, C., Fan, X.-L., Wan, L.-J. & Bai, C.-L. Langmuir 2003 19, 9759-9763.

Record 134

tetrakis-(octadecylthio)-tetrathiafulvalene



plane group $p2$

crystal class oblique

Z 1

Z' 0.5

molecular D(2h)

symmetry

site symmetry 2

molecular 1342.53

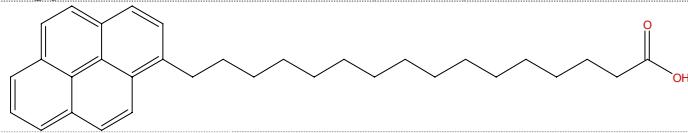
weight (Da)

multicomponent no

Abdel-Mottaleb, M. M. S., Gomar-Nadal, E., De Feyter, S., Zdanowska, M., Veciana, J., Rovira, C., Amabilino, D. B. & De Schryver, F. C. Nano Lett. 2003 3, 1375-1378.

Record 135

1-pyrenehexadecanoic acid (PHDA)



plane group $p2$

crystal class oblique

Z 2

Z' 1

molecular C(s)

symmetry

site symmetry 1

molecular 456.66

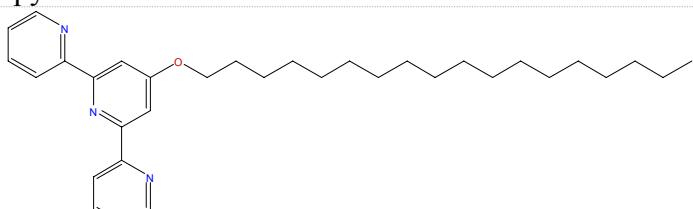
weight (Da)

multicomponent no

Uji-i, H., Yoshidome, M., Hobley, J., Hatanaka, K. & Fukumura, H. Phys. Chem. Chem. Phys. 2003 5, 4231-4235.

Record 136

tpy-O-C18



plane group $p2$

crystal class oblique

Z 2

Z' 1

molecular C(s)

symmetry

site symmetry 1

molecular 501.75

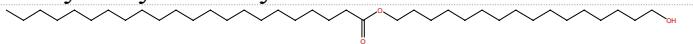
weight (Da)

multicomponent no

Wouters, D., Höppener, S., Lunkwitz, R., Chi, L. F., Fuchs, H. & Schubert, U. S. Adv. Funct. Mater. 2003 13, 277-280.

Record 137

16-hydroxyhexadecyl docosanoate



plane group $p2$

crystal class oblique

Z 2

Z' 1

molecular C(s)

symmetry

site symmetry 1

molecular 581.01

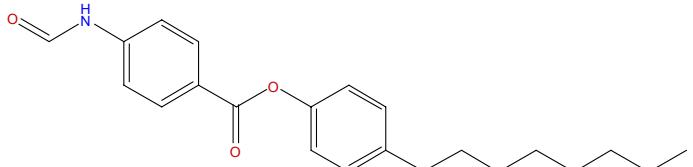
weight (Da)

multicomponent no

Nishino, T., Ito, T. & Umezawa, Y. J. Electroanal. Chem. 2003 550-551, 125-129.

Record 138

4-(heptyloxy)phenyl 4-formamidobenzoate



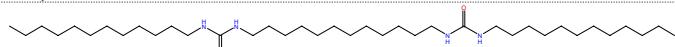
plane group $p2$

<i>crystal class</i>	oblique
Z	2
Z'	1
<i>molecular symmetry</i>	C(1)
<i>site symmetry</i>	1
<i>molecular weight (Da)</i>	355.43
<i>multicomponent</i>	no

De Feyter, S., Gesquière, A., Wurst, K., Amabilino, D. B., Veciana, J. & De Schryver, F. C. *Angew. Chem., Int. Edit.* 2001 40, 3217-3220.

Record 139

1,1'-(dodecane-1,12-diyl)bis(3-dodecylurea) (C12-12)

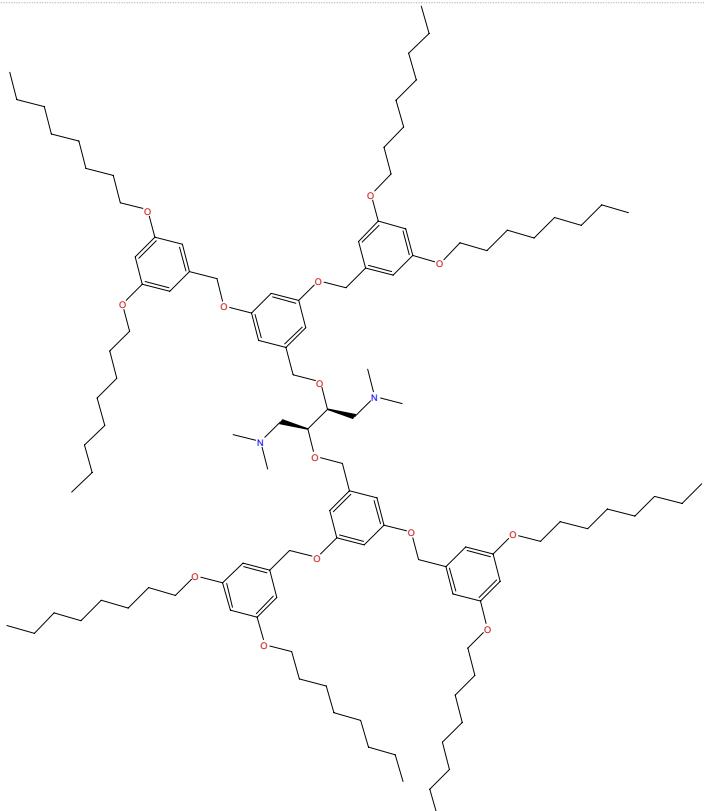


<i>plane group</i>	<i>p2</i>
<i>crystal class</i>	<i>oblique</i>
<i>Z</i>	1
<i>Z'</i>	0.5
<i>molecular symmetry</i>	<i>C(2h)</i>
<i>site symmetry</i>	2
<i>molecular weight (Da)</i>	623.05
<i>multicomponent</i>	no

De Feyter, S., Larsson, M., Schuurmans, N., Verkuijl, B., Zoriniants, G., Gesquière, A., Abdel-Mottaleb, M. M., van Esch, J., Feringa, B. L., van Stam, J. & De Schryver, F. *Chem.-Eur. J.* 2003 9, 1198-1206.

Summer, 1911
Record 140

(2S,3S)-2,3-bis(3,5-bis(3,5-bis(octyloxy)benzyloxy)benzyloxy)-N1,N1,N4,N4-tetramethylbutane-1,4-diamine

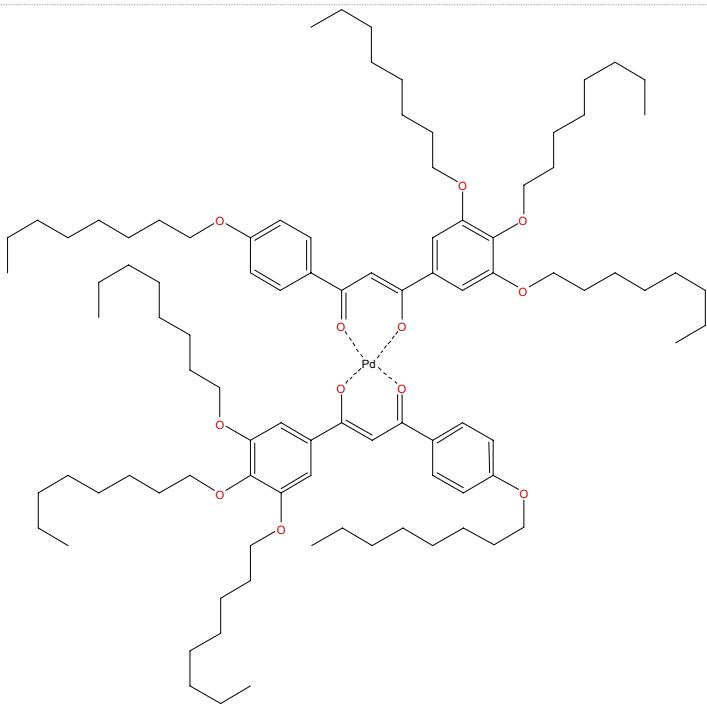


<i>plane group</i>	<i>p2</i>
<i>crystal class</i>	oblique
<i>Z</i>	1
<i>Z'</i>	0.5
<i>molecular symmetry</i>	C(2)
<i>site symmetry</i>	2
<i>molecular weight (Da)</i>	1806.69

multicomponent no
Widmer, I., Hubler, U., Stöhr, M., Merz, L., Güntherodt, H. J., Hermann, B. A., Samorí, P., Rabe, J. P., Rheiner, P. B., Greiveldinger, G. & Murer, P. *Helv. Chim. Acta* 2002 85, 4255-4263.

Record 141

bis[1-(3',4',5'-trioctyl-oxyphenyl)-3-(4'-octyloxphenyl)propane-1,3-ionate]-palladium(II)



<i>plane group</i>	<i>p2</i>
<i>crystal class</i>	oblique
<i>Z</i>	1
<i>Z'</i>	0.5
<i>molecular symmetry</i>	<i>C(2h)</i>
<i>site symmetry</i>	2
<i>molecular weight (Da)</i>	1578.61
<i>weight (Da)</i>	
<i>multicomponent</i>	no

Su, C., Shu, C.-R. & Wu, C.-C. *Liq. Cryst.* 2002 29, 1169-1176.

Record 142
5-(hexadecyloxy)benzene-1,3-dioic acid (C16ISA) and 2,5-dimethylpyrazine

<i>plane group</i>	<i>p2</i>
<i>crystal class</i>	oblique
<i>Z</i>	2
<i>Z'</i>	1
<i>molecular symmetry</i>	<i>C(s), D(2h)</i>
<i>site symmetry</i>	1 2
<i>molecular weight (Da)</i>	514.70

weight (Da)
multicomponent yes
Eichhorst-Gerner, K., Stabel, A., Moessner, G., Declerq, D., Valiyaveettil, S., Enkelmann, V., Müllen, K. & Rabe, J. P. *Angew. Chem., Int. Edit.* 1996 35, 1492-1495.

Record 143
1-pyrenehexadecanoic acid (PHDA) coadsorbed with 4,4' bipyridyl

<i>plane group</i>	<i>p2</i>
<i>crystal class</i>	oblique
<i>Z</i>	2
<i>Z'</i>	1
<i>molecular symmetry</i>	<i>C(s), D(2h)</i>
<i>site symmetry</i>	1 2
<i>molecular weight (Da)</i>	612.84
<i>multicomponent</i>	yes

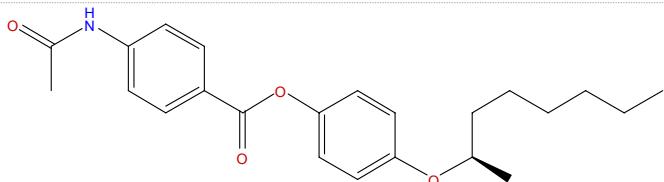
Uji-i, H., Yoshidome, M., Hobley, J., Hatanaka, K. & Fukumura, H. *Phys. Chem. Chem. Phys.* 2003 5, 4231-4235.

Record 144
2,3,9,10-tetra(dodecyloxy)quinacridone

<i>plane group</i>	<i>p2</i>
<i>crystal class</i>	oblique
<i>Z</i>	1
<i>Z'</i>	0.5
<i>molecular symmetry</i>	<i>C(2h)</i>
<i>site symmetry</i>	2
<i>molecular weight (Da)</i>	1049.59
<i>multicomponent</i>	no

De Feyter, S., Gesquière, A., De Schryver, F. C., Keller, U. & Müllen, K. *Chem. Mater.* 2002 14, 989-997.

Record 145
(R)-4-(octan-2-yloxy)phenyl 4-acetamidobenzoate

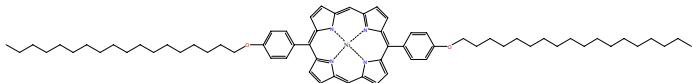


<i>plane group</i>	<i>p2</i>
<i>crystal class</i>	oblique
<i>Z</i>	2
<i>Z'</i>	1
<i>molecular symmetry</i>	C(1)
<i>site symmetry</i>	1
<i>molecular weight (Da)</i>	383.48
<i>multicomponent</i>	no

De Feyter, S., Gesquière, A., Wurst, K., Amabilino, D. B., Veciana, J. & De Schryver, F. C. *Angew. Chem., Int. Edit.* 2001 40, 3217-3220.

Record 146

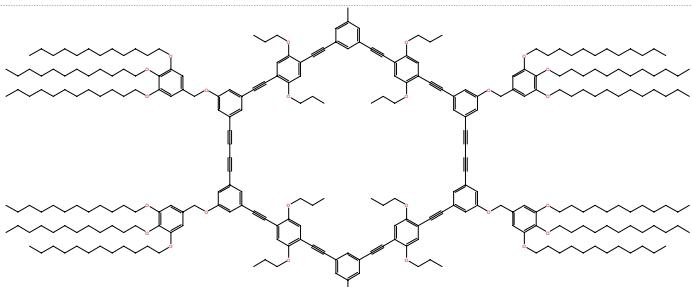
Por-Ni Ni(II)



<i>plane group</i>	<i>p2</i>
<i>crystal class</i>	oblique
<i>Z</i>	1
<i>Z'</i>	0.5
<i>molecular symmetry</i>	C(2h)
<i>site symmetry</i>	2
<i>molecular weight (Da)</i>	1056.18
<i>multicomponent</i>	no

Ohshiro, T., Ito, T., Bühlmann, P. & Umezawa, Y. *Anal. Chem.* 2001 73, 878-883.

Record 147

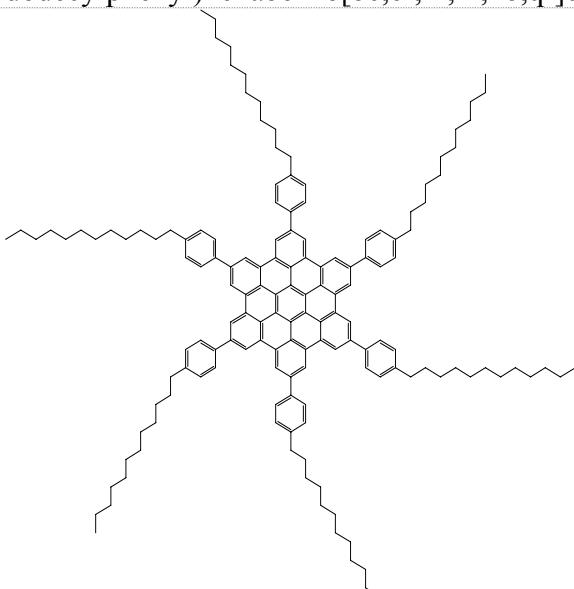


<i>plane group</i>	<i>p2</i>
<i>crystal class</i>	oblique
<i>Z</i>	1
<i>Z'</i>	0.5
<i>molecular symmetry</i>	D(2h)
<i>site symmetry</i>	2
<i>molecular weight (Da)</i>	4178.21
<i>multicomponent</i>	no

Höger, S., Bonrad, K., Mourran, A., Beginn, U. & Möller, M. *J. Am. Chem. Soc.* 2001 123, 5651-5659.

Record 148

2,5,8,11,14,17-hexakis(4-dodecylphenyl)hexabenzocoronene



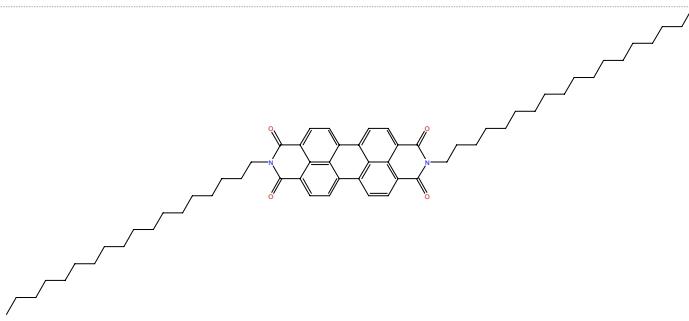
<i>plane group</i>	<i>p2</i>
<i>crystal class</i>	oblique
<i>Z</i>	1
<i>Z'</i>	0.5
<i>molecular symmetry</i>	C(2h)
<i>site symmetry</i>	2
<i>molecular weight (Da)</i>	1989.08
<i>multicomponent</i>	no

<i>plane group</i>	<i>p2</i>
<i>crystal class</i>	oblique
<i>Z</i>	1
<i>Z'</i>	0.5
<i>molecular symmetry</i>	C(6h)
<i>site symmetry</i>	2
<i>molecular weight (Da)</i>	1989.08
<i>multicomponent</i>	no

Samorí, P., Fechtenkötter, A., Jäckel, F., Böhme, T., Müllen, K. & Rabe, J. P. *J. Am. Chem. Soc.* 2001 123, 11462-11467.

Record 149

PTCDI-C18

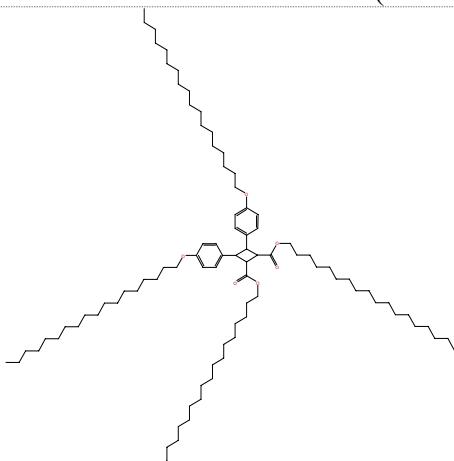


<i>plane group</i>	<i>p2</i>
<i>crystal class</i>	oblique
<i>Z</i>	1
<i>Z'</i>	0.5
<i>molecular symmetry</i>	C(2h)
<i>site symmetry</i>	2
<i>molecular weight (Da)</i>	895.30
<i>multicomponent</i>	no

Kaneda, Y., Stawasz, M. E., Sampson, D. L. & Parkinson, B. A. Langmuir 2001 17, 6185-6195.

Record 150

beta-truxinic acid derivative (C18CinnC18 dimer)

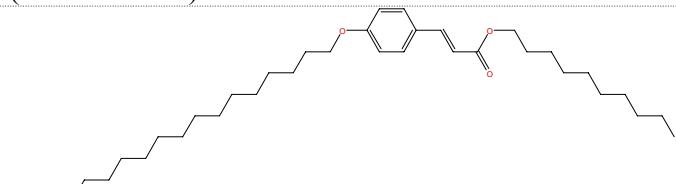


<i>plane group</i>	<i>p2</i>
<i>crystal class</i>	oblique
<i>Z</i>	2
<i>Z'</i>	1
<i>molecular symmetry</i>	C(2v)
<i>site symmetry</i>	1
<i>molecular weight (Da)</i>	1338.23
<i>multicomponent</i>	no

Abdel-Mottaleb, M. M. S., De Feyter, S., Gesquière, A., Sieffert, M., Klapper, M., Müllen, K. & De Schryver, F. C. Nano Lett. 2001 1, 353-359.

Record 151

(E)-decyl 3-(4-(octadecyloxy)phenyl)acrylate
(C18CinnC10)

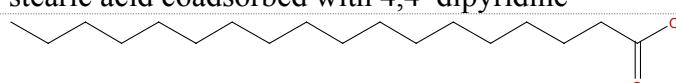


<i>plane group</i>	<i>p2</i>
<i>crystal class</i>	oblique
<i>Z</i>	2
<i>Z'</i>	1
<i>molecular symmetry</i>	C(s)
<i>site symmetry</i>	1
<i>molecular weight (Da)</i>	556.90
<i>multicomponent</i>	no

Abdel-Mottaleb, M. M. S., De Feyter, S., Gesquière, A., Sieffert, M., Klapper, M., Müllen, K. & De Schryver, F. C. Nano Lett. 2001 1, 353-359.

Record 152

stearic acid coadsorbed with 4,4'-dipyridine



<i>plane group</i>	<i>p2</i>
<i>crystal class</i>	oblique
<i>Z</i>	2
<i>Z'</i>	1
<i>molecular symmetry</i>	C(s), D(2h)
<i>site symmetry</i>	1 2
<i>molecular weight (Da)</i>	440.66
<i>multicomponent</i>	yes

Qian, P., Nanjo, H., Sanada, N., Yokoyama, T. & Suzuki, T. M. Chem. Lett. 2000 1118-1119.

Record 153

lignoceric acid
tetracosanoic acid

plane group	p2
crystal class	oblique
Z	2
Z'	1
molecular symmetry	C(s)
site symmetry	1
molecular weight (Da)	368.64

multicomponent no

Wintgens, D., Yablon, D. G. & Flynn, G. W. J. Phys. Chem. B 2003 107, 173-179.

Record 156

15-hydroxypentadecanoic acid coadsorbed with 1-octanol

multicomponent	no
Yoshimura, K., Arakawa, H. & Ikai, A. Jpn. J. Appl. Phys., Part 1 1995 34, 3368-3372.	

Record 154

4,6-bis(pentadecyloxy)isophthalic acid

plane group	p2
crystal class	oblique
Z	4
Z'	2
molecular symmetry	C(2v)
site symmetry	1 1
molecular weight (Da)	618.93

plane group	p2
crystal class	oblique
Z	2
Z'	1

molecular C(s), C(s)

symmetry

site symmetry 1 1

molecular weight (Da) 388.62

multicomponent yes

Wintgens, D., Yablon, D. G. & Flynn, G. W. J. Phys. Chem. B 2003 107, 173-179.

Record 157

5-(11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,18-heptadecafluoro-n-octadecyloxy)isophthalic acid coadsorbed with 1-octanol

multicomponent	no
De Feyter, S., Gesquière, A., Klapper, M., Müllen, K. & De Schryver, F. C. Nano Lett. 2003 3, 1485-1488.	

Record 155

16-hydroxyhexadecanoic acid

plane group	p2
crystal class	oblique
Z	4
Z'	2
molecular symmetry	C(s)
site symmetry	1 1
molecular weight (Da)	272.42

plane group	p2
crystal class	oblique
Z	2
Z'	1

molecular C(s), C(s)

symmetry

site symmetry 1 1

molecular weight (Da) 870.67

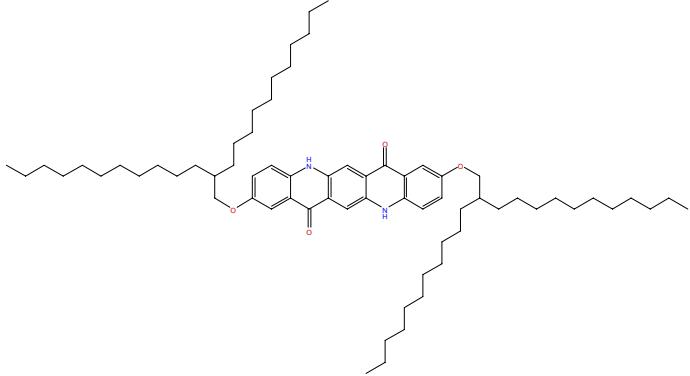
multicomponent yes

Abdel-Mottaleb, M. M. S., De Feyter, S., Sieffert, M., Klapper, M., Müllen, K. & De Schryver, F. C. Langmuir 2003 19, 8256-8261.

Record 158

5,12-dihexadecylquinolino[2,3-b]acridine-7,14(5H,12H)-dione (QA-C16)

2,9-Di-(2-undecyltridecyl-1-oxy)quinacridone



<i>plane group</i>	<i>p2</i>
<i>crystal class</i>	oblique
<i>Z</i>	1
<i>Z'</i>	0.5
<i>molecular symmetry</i>	<i>C(2h)</i>
<i>site symmetry</i>	2
<i>molecular weight (Da)</i>	761.17
<i>multicomponent</i>	no

Qiu, D., Ye, K., Wang, Y., Zou, B., Zhang, X., Lei, S. & Wan, L. Langmuir 2003 19, 678-681.

Record 159

(S)-4-(octan-2-yloxy)phenyl 4-formamidobenzoate

<i>plane group</i>	<i>p2</i>
<i>crystal class</i>	oblique
<i>Z</i>	2
<i>Z'</i>	1
<i>molecular symmetry</i>	<i>C(1)</i>
<i>site symmetry</i>	1
<i>molecular weight (Da)</i>	369.45
<i>multicomponent</i>	no

Mamdouh, W., Uji-i, H., Gesquière, A., De Feyter, S., Amabilino, D. B., Abdel-Mottaleb, M. M. S., Veciana, J. & De Schryver, F. C. Langmuir 2004 20, 9628-9635.

Record 160

<i>plane group</i>	<i>p2</i>
<i>crystal class</i>	oblique
<i>Z</i>	1
<i>Z'</i>	0.5
<i>molecular symmetry</i>	<i>C(2h)</i>
<i>site symmetry</i>	2
<i>molecular weight (Da)</i>	1017.60
<i>multicomponent</i>	no

De Feyter, S., Gesquière, A., De Schryver, F. C., Keller, U. & Müllen, K. Chem. Mater. 2002 14, 989-997.

Record 161

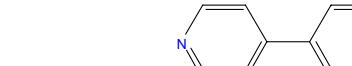
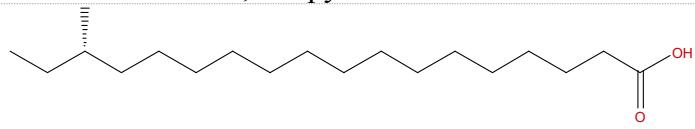
tetrakis-(octadecylthio)-tetrathiafulvalene

<i>plane group</i>	<i>p2</i>
<i>crystal class</i>	oblique
<i>Z</i>	1
<i>Z'</i>	0.5
<i>molecular symmetry</i>	<i>D(2h)</i>
<i>site symmetry</i>	2
<i>molecular weight (Da)</i>	1342.53
<i>multicomponent</i>	no

Abdel-Mottaleb, M. M. S., Gomar-Nadal, E., De Feyter, S., Zdanowska, M., Veciana, J., Rovira, C., Amabilino, D. B. & De Schryver, F. C. Nano Lett. 2003 3, 1375-1378.

Record 162

(S)-16-methyloctadecanoic acid
coadsorbed with 4,4'-dipyridine (16MeC18)

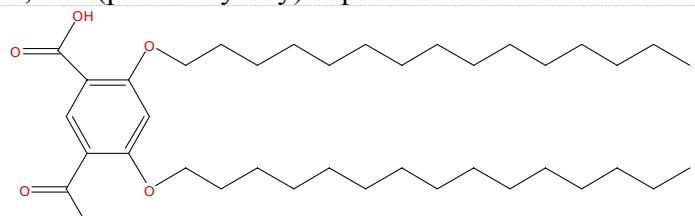


plane group	<i>p</i> 2
crystal class	oblique
<i>Z</i>	2
<i>Z'</i>	1
molecular symmetry	C(1), D(2 <i>h</i>)
site symmetry	1 2
molecular weight (Da)	454.69
multicomponent	yes

Qian, P., Nanjo, H., Sanada, N., Yokoyama, T. & Suzuki, T. M. Chem. Lett. 2000 1118-1119.

Record 163

4,6-bis(pentadecyloxy)isophthalic acid

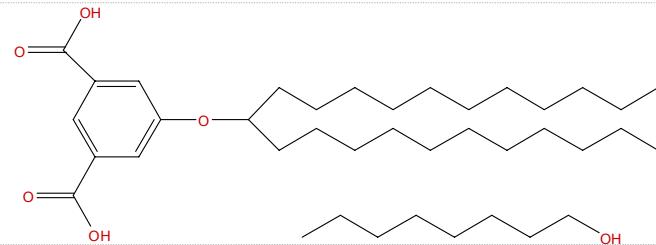


plane group	<i>p</i> 2
crystal class	oblique
<i>Z</i>	2
<i>Z'</i>	1
molecular symmetry	C(2 <i>v</i>)
site symmetry	1
molecular weight (Da)	618.93
multicomponent	no

De Feyter, S., Gesquière, A., Klapper, M., Müllen, K. & De Schryver, F. C. Nano Lett. 2003 3, 1485-1488.

Record 164

5-(tricosan-12-yloxy)isophthalic acid compound with octanol



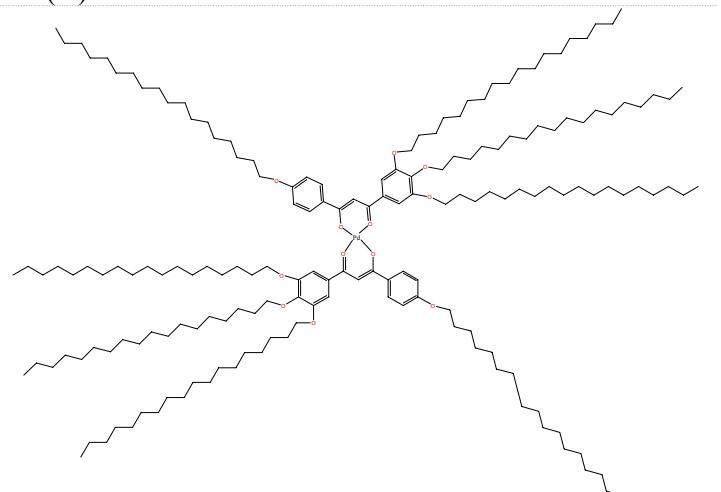
plane group	<i>p</i> 2
crystal class	oblique
<i>Z</i>	2
<i>Z'</i>	1
molecular symmetry	C(s), C(s)
site symmetry	1 1
molecular weight (Da)	634.97
multicomponent	yes

De Feyter, S., Gesquière, A., Klapper, M., Müllen, K. & De Schryver, F. C. Nano Lett. 2003 3, 1485-1488.

Record 165

bis[1-3',4'-trihexadecyl-oxyphenyl-3-(4'-hexadecyloxphenyl) propane-1,3-dionate]palladium (II)

Pd(II)BPOC16

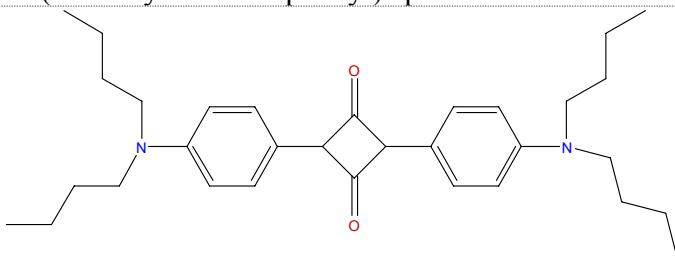


plane group	<i>p</i> 2
crystal class	oblique
<i>Z</i>	1
<i>Z'</i>	0.5
molecular symmetry	C(2 <i>h</i>)
site symmetry	2
molecular weight (Da)	2700.74
multicomponent	no

Su, C., Yu, S. H., Shu, C. R., Wang, H. H. & Lai, C. K. Synth. Met. 2003 137, 915-916.

Record 166

bis(4-dibutylamino-2-phenyl)squaraine



plane group *p*2

crystal class oblique

Z 1

Z' 0.5

molecular *C*(2v)

symmetry

site symmetry 2

molecular 490.72

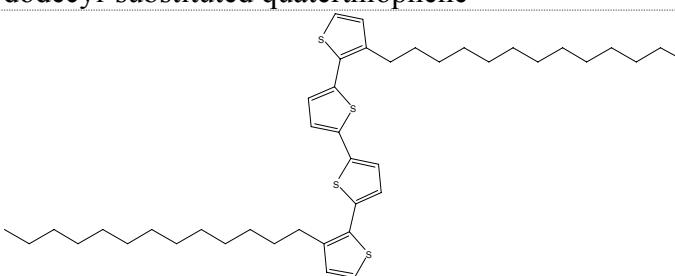
weight (Da)

multicomponent no

Yasuda, S. & Shigekawa, H. Jpn. J. Appl. Phys., Part 1 2003 42, 4901-4904.

Record 167

dodecyl-substituted quaterthiophene



plane group *p*2

crystal class oblique

Z 1

Z' 0.5

molecular *C*(2h)

symmetry

site symmetry 2

molecular 695.20

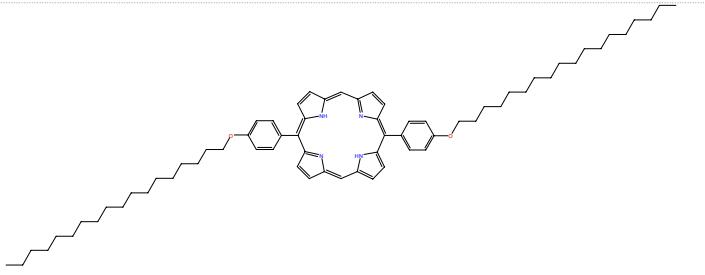
weight (Da)

multicomponent no

Mena-Osteritz, E. Adv. Mater. 2002 14, 609-616.

Record 168

Por-2H



plane group

*p*2

crystal class oblique

Z

1

Z'

0.5

molecular

C(2h)

symmetry

2

site symmetry

2

molecular

999.50

weight (Da)

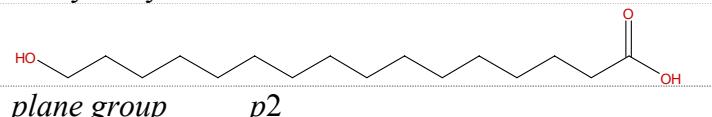
multicomponent

no

Ohshiro, T., Ito, T., Bühlmann, P. & Umezawa, Y. Anal. Chem. 2001 73, 878-883.

Record 169

16-hydroxyhexadecanoic acid



plane group

*p*2

crystal class oblique

Z

2

Z'

1

molecular

C(s)

symmetry

1 1

site symmetry

1 1

molecular

272.42

weight (Da)

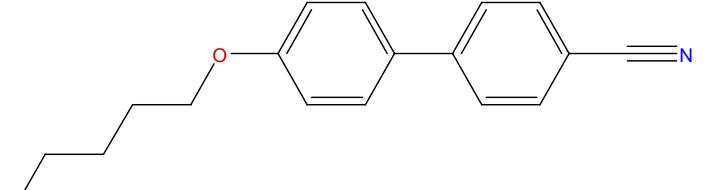
multicomponent

no

Wintgens, D., Yablon, D. G. & Flynn, G. W. J. Phys. Chem. B 2003 107, 173-179.

Record 170

4-n-pentyloxy-4'-cyanobiphenyl (5OCB)



plane group

*p*2

crystal class oblique

Z

2

Z'

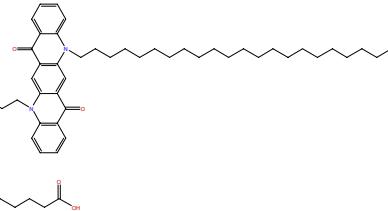
1

molecular symmetry	C(s)
site symmetry	1
molecular weight (Da)	265.35
multicomponent	no
Walzer, K. & Hetschold, M. J. Vac. Sci. Technol., B 1996 14, 1461-1465.	

Mu, Z., Wang, Z., Zhang, X., Ye, K. & Wang, Y. J. Phys. Chem. B 2004 108, 19955-19959.

Record 173

N,N'-didocosyl-quinacridone (QA-C22) and steric acid

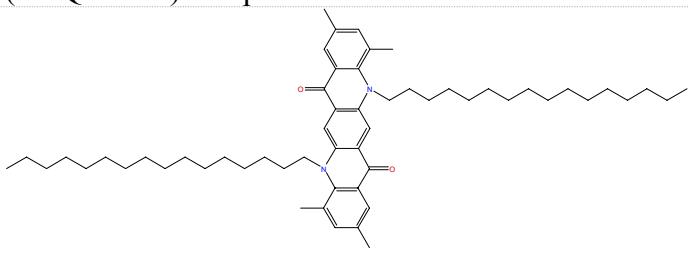


plane group	p2
crystal class	oblique
Z	1
Z'	0.5
molecular symmetry	C(2h)

site symmetry	2
molecular weight (Da)	985.60
multicomponent	yes
Mu, Z., Wang, Z., Zhang, X., Ye, K. & Wang, Y. J. Phys. Chem. B 2004 108, 19955-19959.	

Record 174

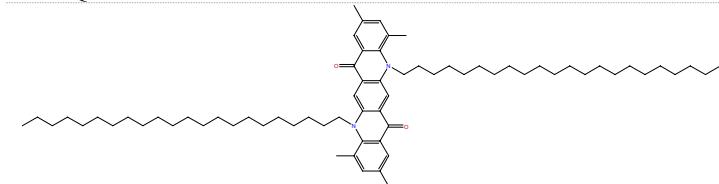
1,3,8,10-tetramethyl-N,N'-dihexadecyl-quinacridone (TmQA-C16) and palmitic acid



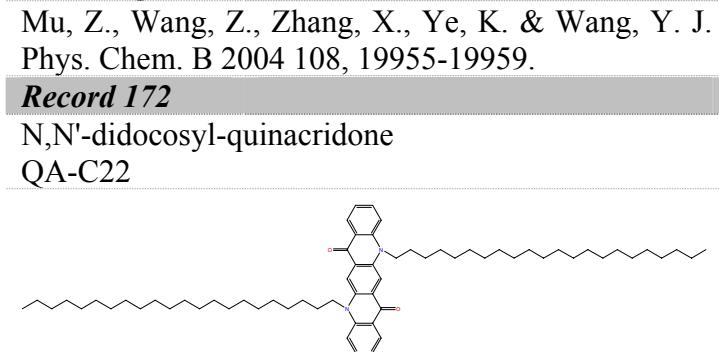
plane group	p2
crystal class	oblique
Z	2
Z'	1
molecular symmetry	C(s), C(2h)

site symmetry	1 2
molecular weight (Da)	1073.70
multicomponent	yes
Mu, Z., Wang, Z., Zhang, X., Ye, K. & Wang, Y. J. Phys. Chem. B 2004 108, 19955-19959.	

Record 175

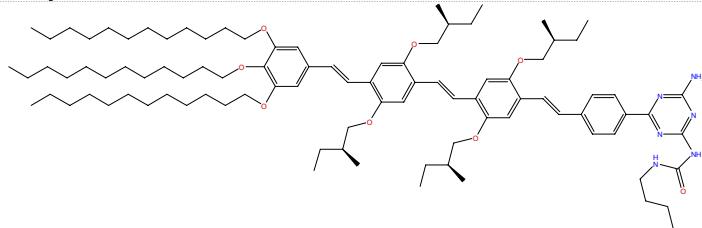


plane group	p2
crystal class	oblique
Z	1
Z'	0.5
molecular symmetry	C(2h)



site symmetry	2
molecular weight (Da)	929.49
multicomponent	no
Mu, Z., Wang, Z., Zhang, X., Ye, K. & Wang, Y. J. Phys. Chem. B 2004 108, 19955-19959.	

1-(4-amino-6-(4-(4-(2,5-bis((S)-2-methylbutoxy)-4-(3,4,5-tris(dodecyloxy)styryl)styryl)-2,5-bis((S)-2-methylbutoxy)styryl)phenyl)-1,3,5-triazin-2-yl)-3-butylurea

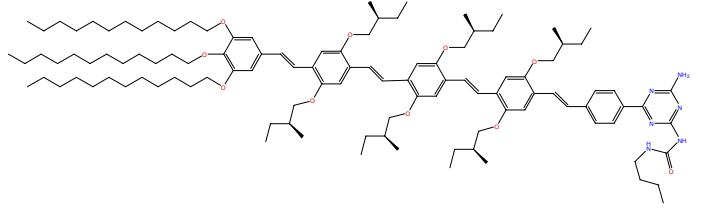


<i>plane group</i>	<i>p2</i>
<i>crystal class</i>	oblique
<i>Z</i>	2
<i>Z'</i>	1
<i>molecular symmetry</i>	<i>C(1)</i>
<i>site symmetry</i>	1
<i>molecular weight (Da)</i>	1490.22
<i>multicomponent</i>	no

Gesqui  re, A., Jonkheijm, P., Hoeben, F. J. M., Schenning, A. P. H. J., De Feyter, S., De Schryver, F. C. & Meijer, E. W. Nano Lett. 2004 4, 1175-1179.

Record 176

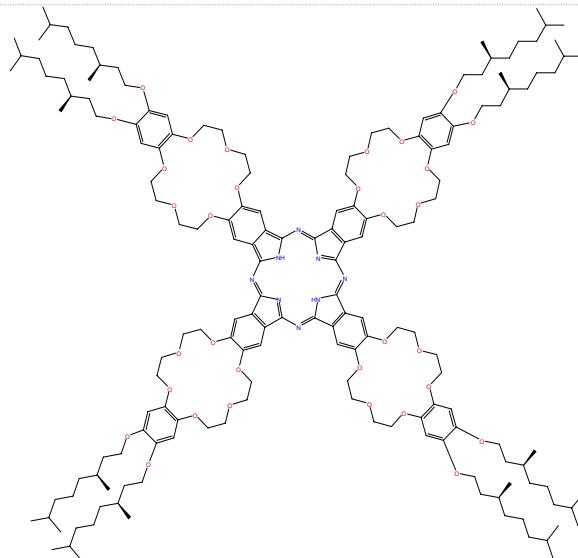
1-(4-amino-6-(4-(4-(2,5-bis((S)-2-methylbutoxy)-4-(3,4,5-tris(dodecyloxy)styryl)styryl)-2,5-bis((S)-2-methylbutoxy)styryl)-2,5-bis((S)-2-methylbutoxy)styryl)phenyl)-1,3,5-triazin-2-yl)-3-butylurea



<i>plane group</i>	<i>p2</i>
<i>crystal class</i>	oblique
<i>Z</i>	2
<i>Z'</i>	1
<i>molecular symmetry</i>	<i>C(1)</i>
<i>site symmetry</i>	1
<i>molecular weight (Da)</i>	1764.61
<i>multicomponent</i>	no

Gesqui  re, A., Jonkheijm, P., Hoeben, F. J. M., Schenning, A. P. H. J., De Feyter, S., De Schryver, F. C. & Meijer, E. W. Nano Lett. 2004 4, 1175-1179.

Record 177

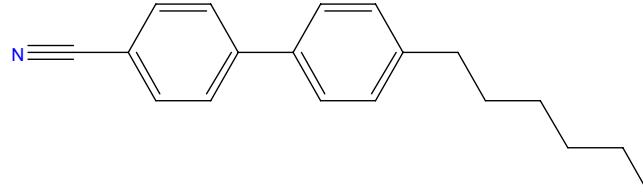


<i>plane group</i>	<i>p2</i>
<i>crystal class</i>	oblique
<i>Z</i>	1
<i>Z'</i>	0.5
<i>molecular symmetry</i>	<i>C(4)</i>
<i>site symmetry</i>	2
<i>molecular weight (Da)</i>	2893.82
<i>multicomponent</i>	no

Samor  , P., Engelkamp, H., de Witte, P., Rowan, A. E., nolte, R. J. M. & Rabe, J. P. Angew. Chem., Int. Edit. 2001 40, 2348-2350.

Record 178

4'-n-hexyl-4-cyanobiphenyl (6CB)



<i>plane group</i>	<i>p2</i>
<i>crystal class</i>	oblique
<i>Z</i>	4
<i>Z'</i>	2
<i>molecular symmetry</i>	<i>C(s)</i>
<i>site symmetry</i>	1 1

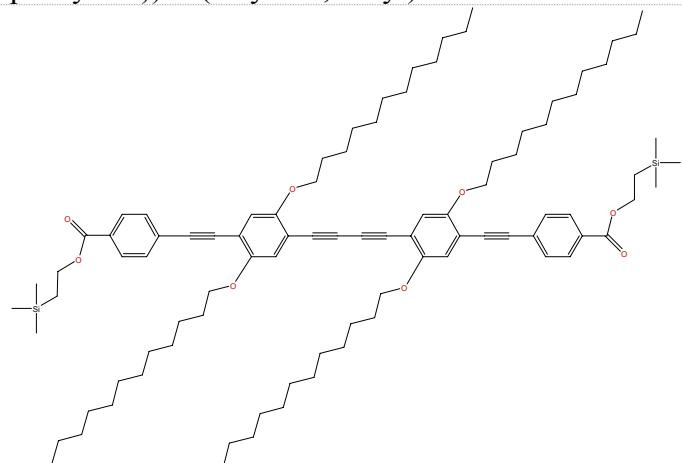
molecular weight (Da) 263.38

multicomponent no

Smith, D. P. E., Heckl, W. M. & Klagges, H. A. Surf. Sci. 1992 278, 166-174.

Record 179

bis(2-(trimethylsilyl)ethyl) 4,4'-(4,4'-(buta-1,3-diyne-1,4-diyl)bis(2,5-bis(dodecyloxy)-4,1-phenylene))bis(ethyne-2,1-diyl)dibenzoate



plane group p2

crystal class oblique

Z 1

Z' 0.5

molecular symmetry C(2h)

site symmetry

2

molecular weight (Da) 1428.25

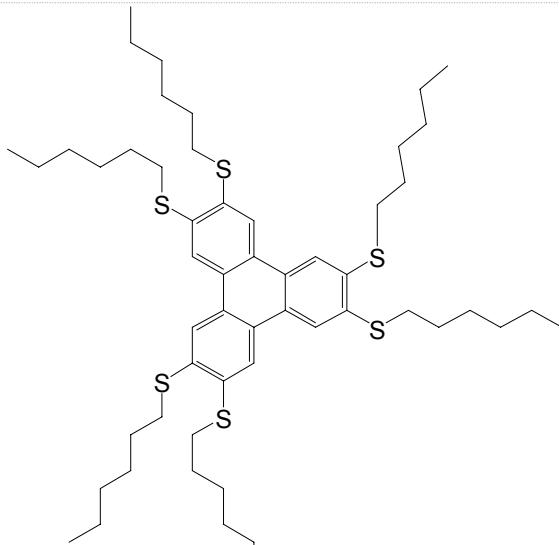
weight (Da)

multicomponent no

Mu, Z., Yang, X., Wang, Z., Zhang, X., Zhao, J. & Bo, Z. Langmuir 2004 20, 8892-8896.

Record 180

2,3,6,7,10,11-hexakis(hexylthio)triphenylene



plane group p2

crystal class oblique

Z 2

Z' 1

molecular symmetry D(3h)

site symmetry

1

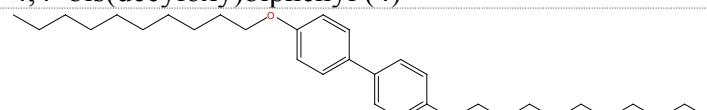
molecular weight (Da) 925.63

multicomponent no

Gabriel, J. C., Larsen, N. B., Larsen, M., Harrit, N., Pedersen, J. S., Schaumburg, K. & Bechgaard, K. Langmuir 1996 12, 1690-1692.

Record 181

4,4'-bis(decyloxy)biphenyl (4)



plane group p2

crystal class oblique

Z 2

Z' 1

molecular symmetry C(2v)

site symmetry

1

molecular weight (Da) 466.74

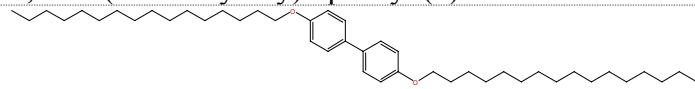
weight (Da)

multicomponent no

Hansen, T., Itoua, S., Kamounah, F. S., Christensen, J. B., Bjørnholm, T., Schaumburg, K., Bechgaard, K. & Wilkes, S. B. J. Mater. Chem. 1999 9, 1107-1113.

Record 182

4,4'-bis(hexadecyloxy)biphenyl (5)

plane group *p*2

crystal class oblique

Z 1

Z' 0.5

molecular symmetry C(2v)

site symmetry

site symmetry 2

molecular weight (Da) 635.06

weight (Da)

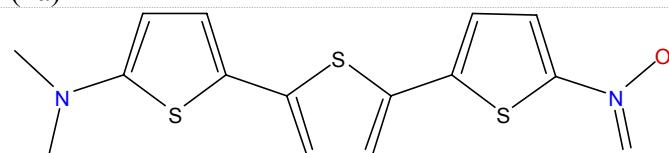
multicomponent no

Hansen, T., Itoua, S., Kamounah, F. S., Christensen, J. B., Bjørnholm, T., Schaumburg, K., Bechgaard, K. & Wilkes, S. B. *J. Mater. Chem.* 1999 9, 1107-1113.

Record 183

5-(dimethylamino)-5"-nitro-2,2':5',2"-terthiophene

(2a)

plane group *p*2

crystal class oblique

Z 2

Z' 1

molecular symmetry C(s)

site symmetry

site symmetry 1

molecular weight (Da) 337.46

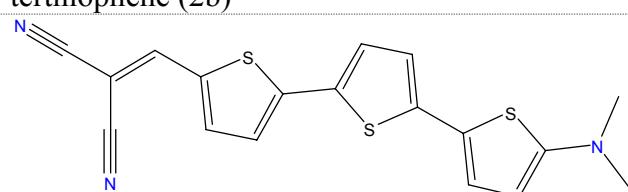
weight (Da)

multicomponent no

Stecher, R., Drewnick, F. & Gompf, B. *Langmuir* 1999 15, 6490-6494.

Record 184

5-(dimethylamino)-5"-cyanovinyl-2,2':5',2"-terthiophene (2b)

plane group *p*2

crystal class oblique

Z 2

Z' 1

molecular symmetry C(s)

site symmetry

site symmetry 1

molecular weight (Da) 367.51

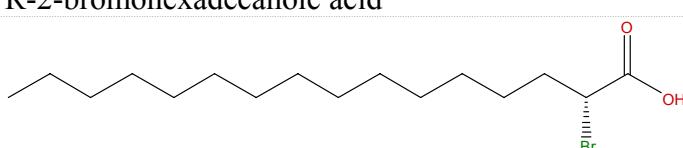
weight (Da)

multicomponent no

Stecher, R., Drewnick, F. & Gompf, B. *Langmuir* 1999 15, 6490-6494.

Record 185

R-2-bromohexadecanoic acid

plane group *p*2

crystal class oblique

Z 2

Z' 1

molecular symmetry C(1)

site symmetry

site symmetry 1

molecular weight (Da) 335.32

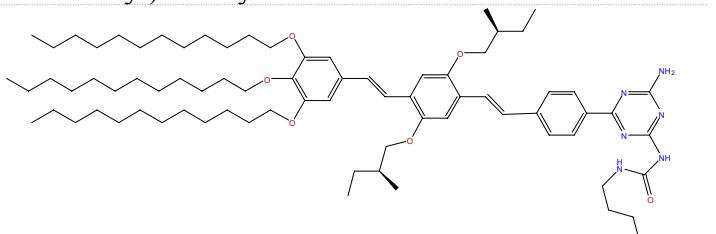
weight (Da)

multicomponent no

Fang, H. B., Giancarlo, L. C. & Flynn, G. W. *J. Phys. Chem. B* 1998 102, 7311-7315.

Record 186

1-(4-amino-6-(4-(2,5-bis((S)-2-methylbutoxy)-4-(3,4,5-tris(dodecyloxy)styryl)styryl)phenyl)-1,3,5-triazin-2-yl)-3-butylurea

plane group *p*2

crystal class oblique

Z 2

Z' 1

molecular symmetry C(1)

site symmetry

site symmetry 1

molecular weight (Da) 1215.82

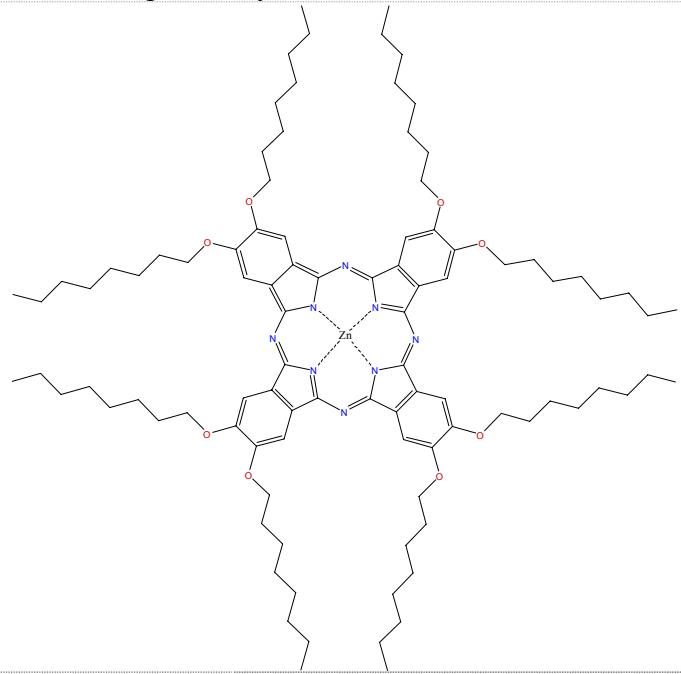
weight (Da)

multicomponent no

Gesquière, A., Jonkheijm, P., Hoeben, F. J. M., Schenning, A. P. H. J., De Feyter, S., De Schryver, F. C. & Meijer, E. W. *Nano Lett.* 2004 4, 1175-1179.

Record 187

Zinc(II) 2,3,9,10,16,17,23,24-octakis(octyloxy)-29H,31H-phthalocyanine



plane group

p2

crystal class

oblique

Z

1

Z'

0.5

molecular

D(4h)

symmetry

site symmetry

2

molecular

1603.62

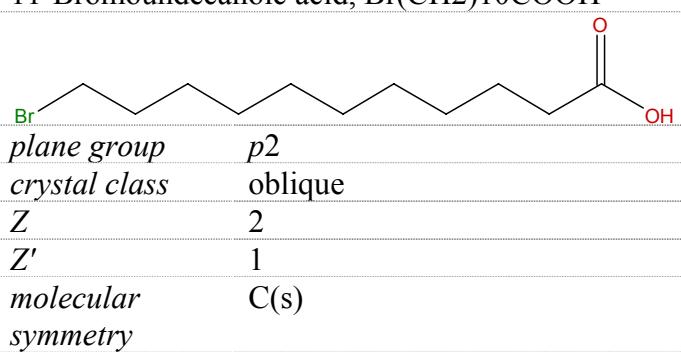
weight (Da)

multicomponent no

Qiu, X. H., Wang, C., Yin, S. X., Zeng, Q. D., Xu, B. & Bai, C. L. *J. Phys. Chem. B* 2000 104, 3570-3574.

Record 188

11-Bromoundecanoic acid, Br(CH₂)₁₀COOH



plane group

p2

crystal class

oblique

Z

2

Z'

1

molecular

C(s)

symmetry

site symmetry

1

molecular

265.19

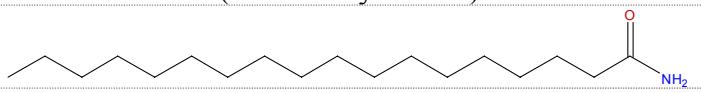
weight (Da)

multicomponent no

Fang, H. B., Giancarlo, L. C. & Flynn, G. W. *J. Phys. Chem. B* 1998 102, 7421-7424.

Record 189

octadecanamide (aka stearoyl amide)



plane group

p2

crystal class

oblique

Z

2

Z'

1

molecular

C(s)

symmetry

site symmetry

1

molecular

283.49

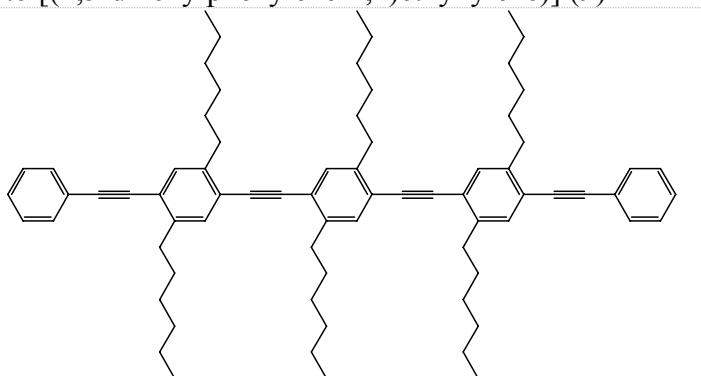
weight (Da)

multicomponent no

Giancarlo, L., Cyr, D., Muyskens, K. & Flynn, G. W. *Langmuir* 1998 14, 1465-1471.

Record 190

a-phenylethylnyl-w-phenyl-ter[(2,5-dihexylphenylene-1,4)ethynylene] (9)



plane group

p2

crystal class

oblique

Z

1

Z'

0.5

molecular

C(2h)

symmetry

site symmetry

2

molecular

983.54

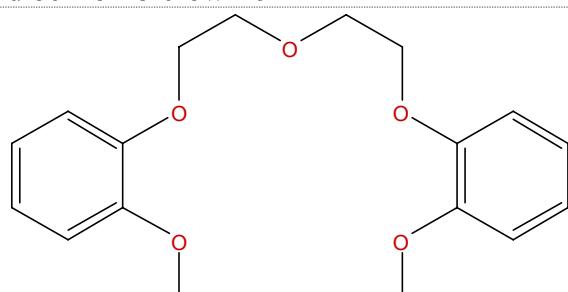
weight (Da)

multicomponent no

Samorí, P., Francke, V., Müllen, K. & Rabe, J. P. *Chem.-Eur. J.* 1999 5, 2312-2317.

Record 191

dibenzo-18-crown-6

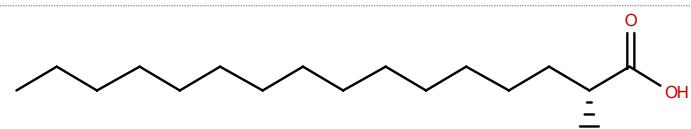


plane group	<i>p</i> 2
crystal class	oblique
<i>Z</i>	1
<i>Z'</i>	0.5
molecular symmetry	D(2h)
site symmetry	2
molecular weight (Da)	360.40
multicomponent	no

Kuwahara, Y., Saito, A. & Aono, M. Seisan to Gijutsu 1999 51, 55-58.

Record 192

2-bromohexadecanoic acid

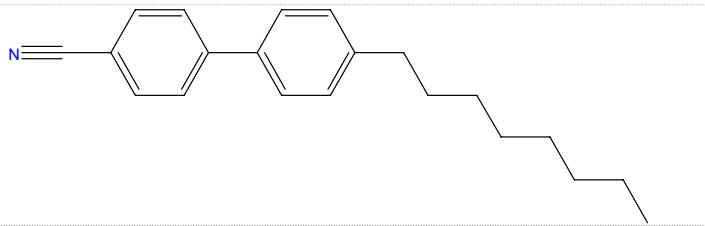


plane group	<i>p</i> 2
crystal class	oblique
<i>Z</i>	2
<i>Z'</i>	1
molecular symmetry	C(1)
site symmetry	1
molecular weight (Da)	670.64
multicomponent	no

Fang, H. B., Giancarlo, L. C. & Flynn, G. W. J. Phys. Chem. B 1999 103, 5712-5715.

Record 193

4-n-octyl-4'-cyanobiphenyl (8CB)

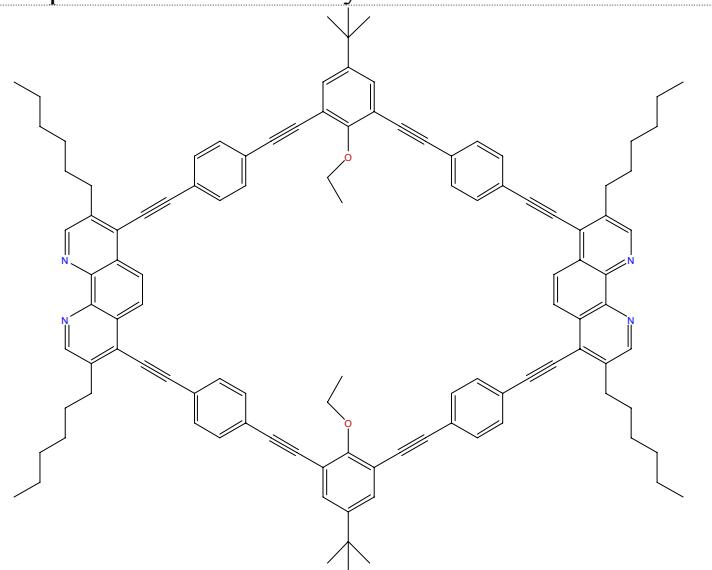


plane group	<i>p</i> 2
crystal class	oblique
<i>Z</i>	8
<i>Z'</i>	4
molecular symmetry	C(s)
site symmetry	1 1 1 1
molecular weight (Da)	291.43
multicomponent	no

Baker, R. T., Mougous, J. D., Brackley, A. & Patrick, D. L. Langmuir 1999 15, 4884-4891.

Record 194

bisphenanthroline macrocycle

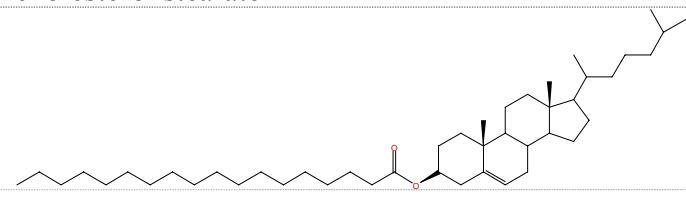


plane group	<i>p</i> 2
crystal class	oblique
<i>Z</i>	2
<i>Z'</i>	1
molecular symmetry	C(2v)
site symmetry	1
molecular weight (Da)	1542.08
multicomponent	no

Kalsani, V., Ammon, H., Jäckel, F., Rabe, J. P. & Schmittel, M. Chem.-Eur. J. 2004 10, 5481-5492.

Record 195

cholesterol stearate

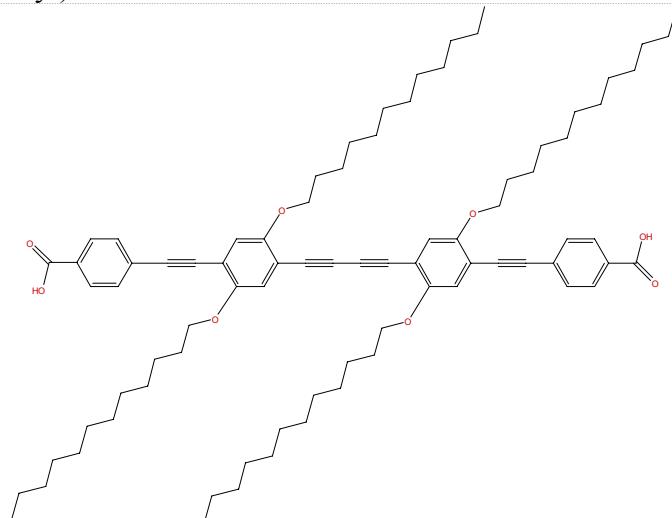


plane group	p2
crystal class	oblique
Z	2
Z'	1
molecular symmetry	C(1)
site symmetry	1
molecular weight (Da)	653.12
multicomponent	no

Yoshimura, K., Arakawa, H. & Ikai, A. Jpn. J. Appl. Phys., Part 1 1995 34, 3368-3372.

Record 196

4,4'-(4,4'-(buta-1,3-diyne-1,4-diyl)bis(2,5-bis(dodecyloxy)-4,1-phenylene))bis(ethyne-2,1-diyl)dibenzoic acid

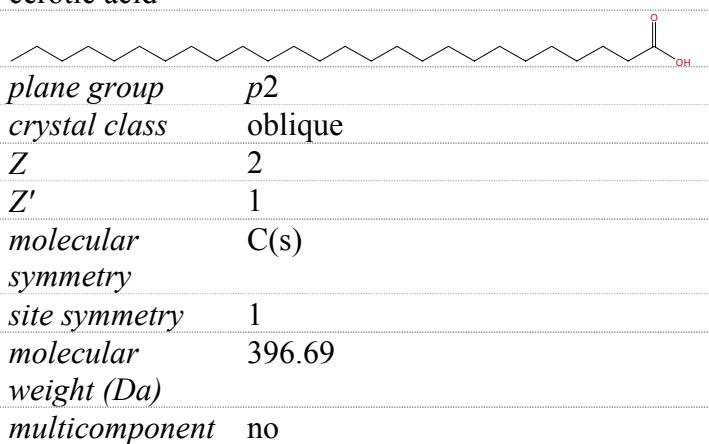


plane group	p2
crystal class	oblique
Z	1
Z'	0.5
molecular symmetry	C(2h)
site symmetry	2
molecular weight (Da)	1227.78
multicomponent	no

Mu, Z., Yang, X., Wang, Z., Zhang, X., Zhao, J. & Bo, Z. Langmuir 2004 20, 8892-8896.

Record 197

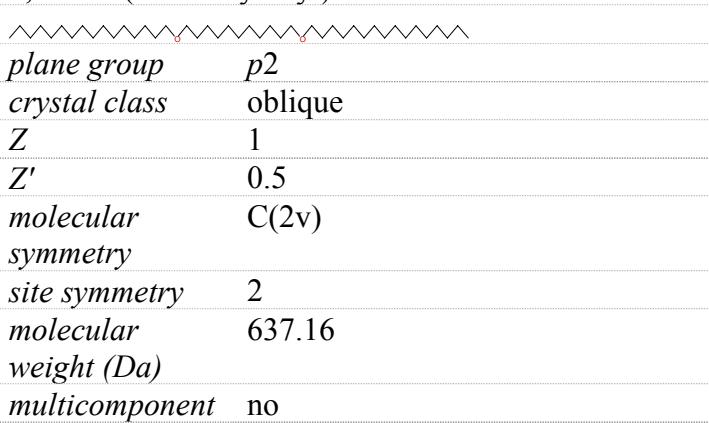
cerotic acid



Yoshimura, K., Arakawa, H. & Ikai, A. Jpn. J. Appl. Phys., Part 1 1995 34, 3368-3372.

Record 198

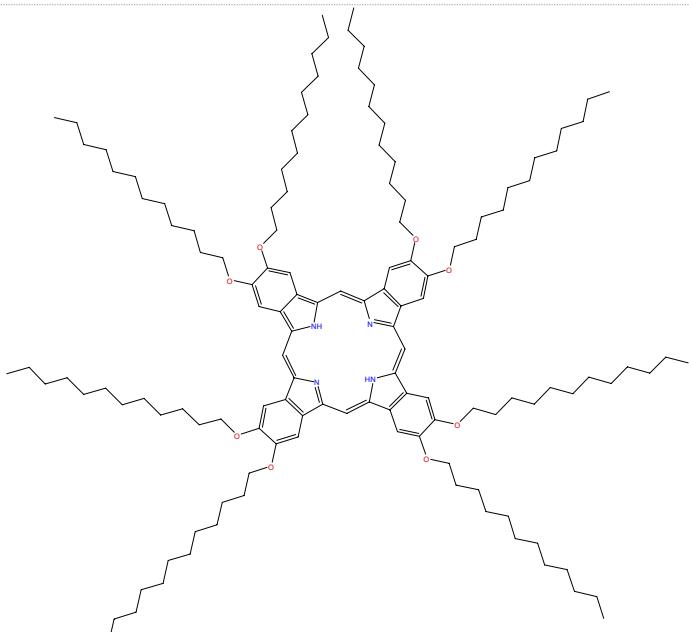
1,11-bis-(hexadecyloxy)undecane



Nishino, T., Bühlmann, P., Ito, T. & Umezawa, Y. Surf. Sci. 2001 490, L579-L584.

Record 199

dodecoxyl phthalocyanine

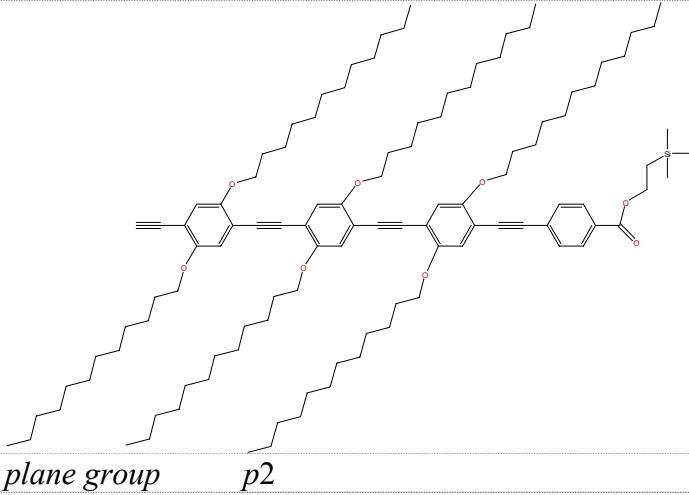


<i>plane group</i>	<i>p2</i>
<i>crystal class</i>	oblique
<i>Z</i>	1
<i>Z'</i>	0.5
<i>molecular symmetry</i>	<i>C(2v)</i>
<i>site symmetry</i>	2
<i>molecular weight (Da)</i>	1985.13
<i>multicomponent</i>	no

Binnemans, K., Sleen, J., De Feyter, S., De Schryver, F. C., Donnio, B. & Guillon, D. *Chem. Mater.* 2003 15, 3930-3938.

Record 200

2-(trimethylsilyl)ethyl 4-((4-((4-((2,5-bis(dodecyloxy)-4-ethynylphenyl)ethynyl)-2,5-bis(dodecyloxy)phenyl)ethynyl)-2,5-bis(dodecyloxy)phenyl)ethynyl)benzoate



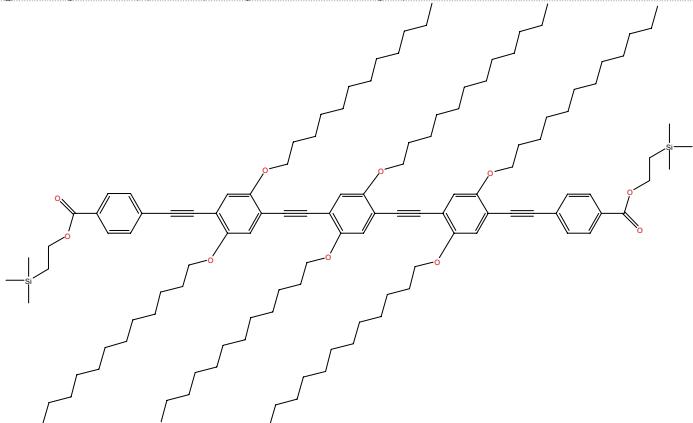
plane group *p2*

<i>crystal class</i>	oblique
<i>Z</i>	2
<i>Z'</i>	1
<i>molecular symmetry</i>	<i>C(s)</i>
<i>site symmetry</i>	1
<i>molecular weight (Da)</i>	1652.64
<i>multicomponent</i>	no

Mu, Z., Yang, X., Wang, Z., Zhang, X., Zhao, J. & Bo, Z. *Langmuir* 2004 20, 8892-8896.

Record 201

bis(2-(trimethylsilyl)ethyl) 4,4'-(4,4'-(2,5-bis(dodecyloxy)-1,4-phenylene)bis(ethyne-2,1-diyl)bis(2,5-bis(dodecyloxy)-4,1-phenylene))bis(ethyne-2,1-diyl)dibenzoate

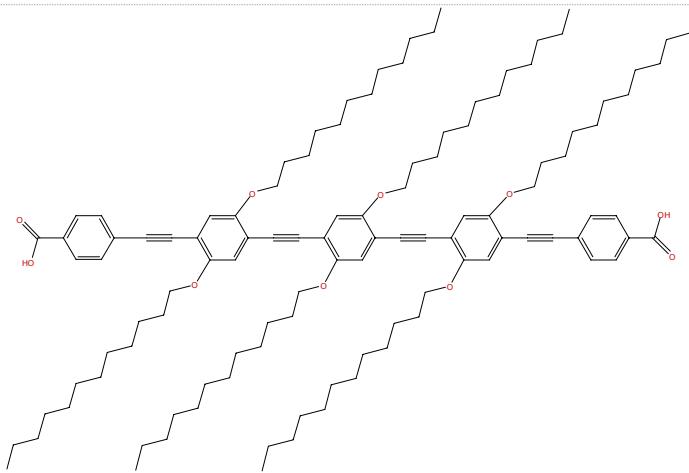


<i>plane group</i>	<i>p2</i>
<i>crystal class</i>	oblique
<i>Z</i>	1
<i>Z'</i>	0.5
<i>molecular symmetry</i>	<i>C(2h)</i>
<i>site symmetry</i>	2
<i>molecular weight (Da)</i>	1872.98
<i>multicomponent</i>	no

Mu, Z., Yang, X., Wang, Z., Zhang, X., Zhao, J. & Bo, Z. *Langmuir* 2004 20, 8892-8896.

Record 202

4,4'-(4,4'-(2,5-bis(dodecyloxy)-1,4-phenylene)bis(ethyne-2,1-diyl)bis(2,5-bis(dodecyloxy)-4,1-phenylene))bis(ethyne-2,1-diyl)dibenzoic acid

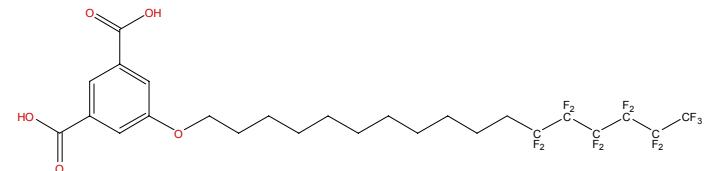


<i>symmetry</i>	
<i>site symmetry</i>	2
<i>molecular</i>	2893.82
<i>weight (Da)</i>	
<i>multicomponent</i>	no

Samorí, P., Engelkamp, H., de Witte, P., Rowan, A. E., nolte, R. J. M. & Rabe, J. P. Angew. Chem., Int. Edit. 2001 40, 2348-2350.

Record 204

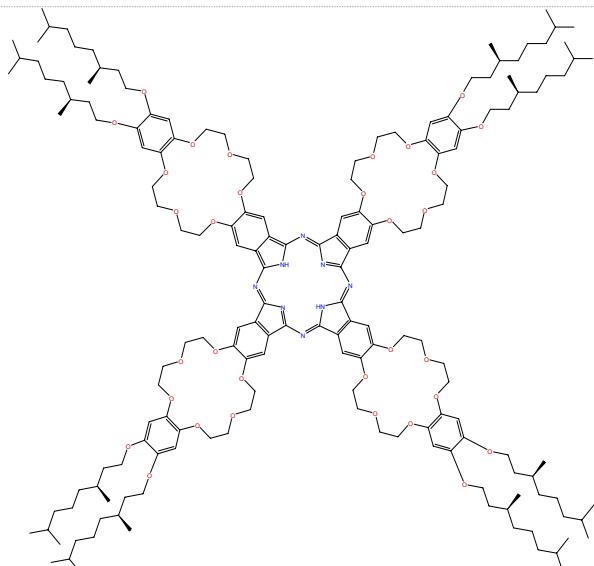
5-((W-perfluorohexyl)undecanyloxy)isophthalic Acid (F6H11-ISA) with octanol



<i>plane group</i>	p2
<i>crystal class</i>	oblique
Z	1
Z'	0.5
<i>molecular</i>	C(2h)
<i>symmetry</i>	
<i>site symmetry</i>	2
<i>molecular</i>	1672.51
<i>weight (Da)</i>	
<i>multicomponent</i>	no

Mu, Z., Yang, X., Wang, Z., Zhang, X., Zhao, J. & Bo, Z. Langmuir 2004 20, 8892-8896.

Record 203



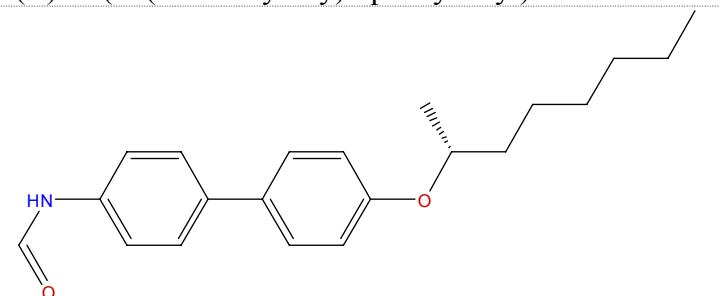
<i>plane group</i>	p2
<i>crystal class</i>	oblique
Z	1
Z'	0.5
<i>molecular</i>	C(4)

<i>plane group</i>	p2
<i>crystal class</i>	oblique
Z	2
Z'	1
<i>molecular</i>	C(s), C(s)
<i>symmetry</i>	
<i>site symmetry</i>	1 1
<i>molecular</i>	784.69
<i>weight (Da)</i>	
<i>multicomponent</i>	yes

Gesquière, A., Abdel-Mottaleb, M. M., De Schryver, F. C., Sieffert, M. & Müllen, K. Langmuir 1999 15, 6821-6824.

Record 205

(R)-N-(4'-(octan-2-yloxy)biphenyl-4-yl)formamide



<i>plane group</i>	p2
<i>crystal class</i>	oblique
Z	2
Z'	1
<i>molecular</i>	C(1)
<i>symmetry</i>	
<i>site symmetry</i>	1
<i>molecular</i>	325.45

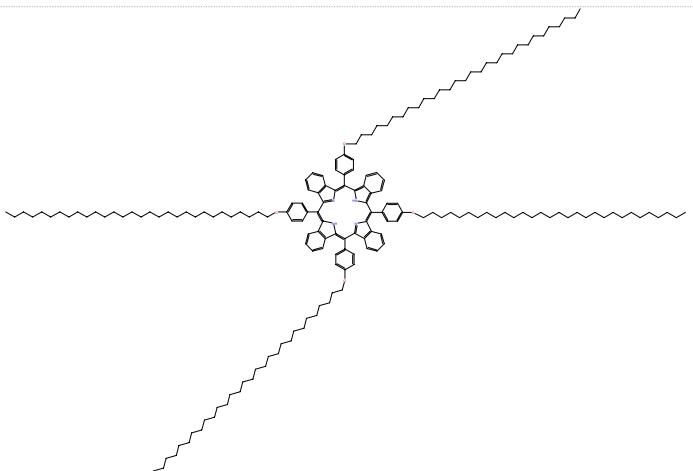
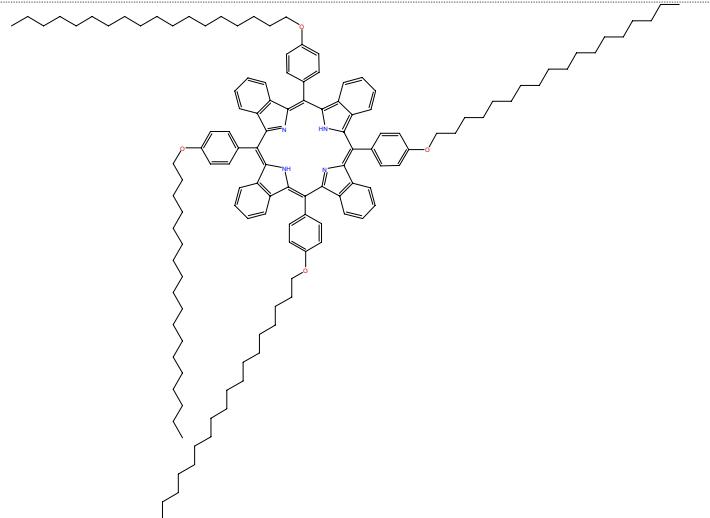
weight (Da)

multicomponent no

Mamdouh, W., Uji-i, H., Gesqui  re, A., De Feyter, S., Amabilino, D. B., Abdel-Mottaleb, M. M. S., Veciana, J. & De Schryver, F. C. Langmuir 2004 20, 9628-9635.

Record 206

C18OPP



plane group

p2

crystal class

oblique

Z

1

Z'

0.5

molecular

D(2h)

symmetry

site symmetry

2

molecular

2562.16

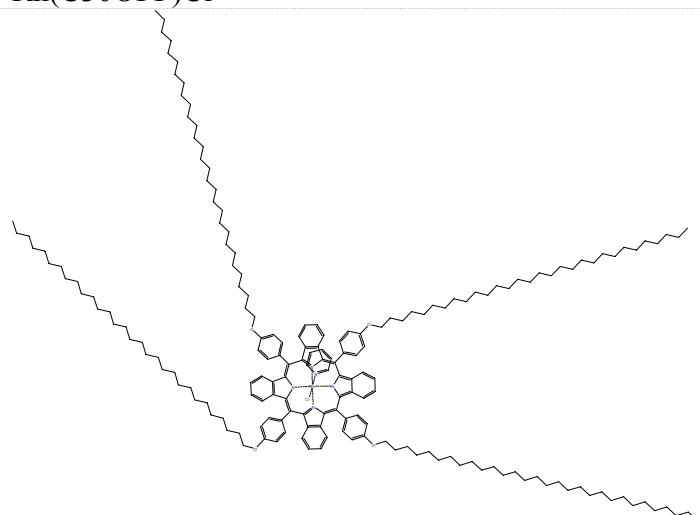
weight (Da)

multicomponent no

Ikeda, T., Asakawa, M., Goto, M., Miyake, K., Ishida, T. & Shimizu, T. Langmuir 2004 20, 5454-5459.

Record 208

Rh(C30OPP)Cl



plane group

p2

crystal class

oblique

Z

1

Z'

0.5

Record 207

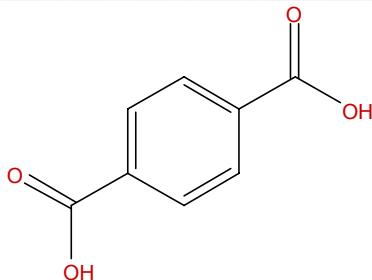
C30OPP

molecular symmetry	D(2h)
site symmetry	2
molecular weight (Da)	2777.60
multicomponent	no

Ikeda, T., Asakawa, M., Goto, M., Miyake, K., Ishida, T. & Shimizu, T. Langmuir 2004 20, 5454-5459.

Record 209

terephthalic acid

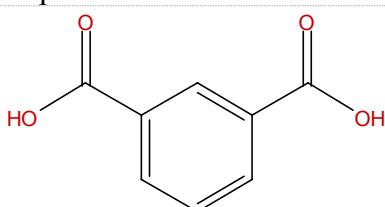


plane group symmetry	p2
crystal class	oblique
Z	1
Z'	0.5
molecular symmetry	C(2v)
site symmetry	2
molecular weight (Da)	166.13
multicomponent	no

Lackinger, M., Griessl, S., Markert, T., Jamitzky, F. & Heckl, W. M. J. Phys. Chem. B 2004 108, 13652-13655.

Record 210

isophthalic acid



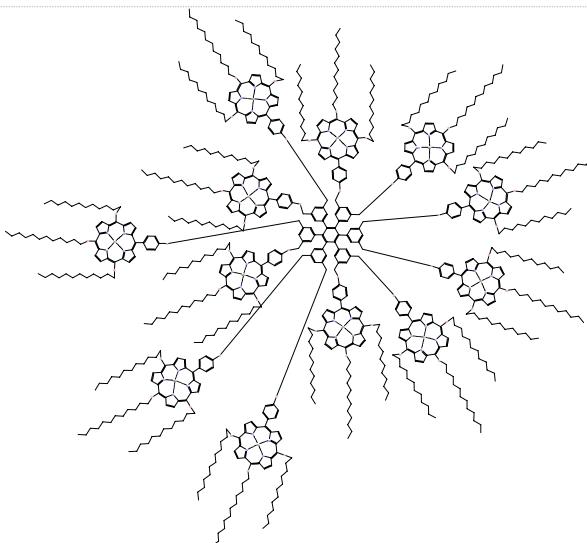
plane group symmetry	p2
crystal class	oblique
Z	2
Z'	1
molecular symmetry	C(2v)
site symmetry	1
molecular weight (Da)	166.13

weight (Da)

multicomponent no

Lackinger, M., Griessl, S., Markert, T., Jamitzky, F. & Heckl, W. M. J. Phys. Chem. B 2004 108, 13652-13655.

Record 211



plane group

p2

crystal class

oblique

Z

1

Z'

0.5

molecular symmetry

D(6h), D(3d)

site symmetry

2 2

molecular weight (Da)

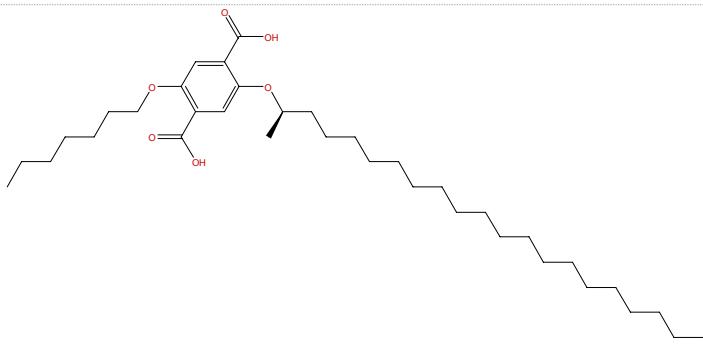
13032.35

multicomponent yes

Lensen, M. C., van Dingenen, S. J. T., Elemans, J. A. A. W., Dijkstra, H. P., van Klink, G. P. M., van Koten, G., Gerritsen, J. W., Speller, S., nolte, R. J. M. & Rowan, A. E. Chem. Commun. 2004 762-763.

Record 212

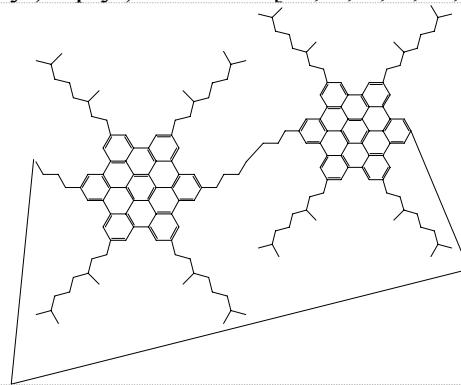
R-2-eicosyloxy-5-(1-methylheptyloxy)terephthalic acid



<i>site symmetry</i>	1 1
<i>molecular weight (Da)</i>	650.89
<i>multicomponent</i>	yes
	Mamdouh, W., Uji-i, H., Gesquière, A., De Feyter, S., Amabilino, D. B., Abdel-Mottaleb, M. M. S., Veciana, J. & De Schryver, F. C. Langmuir 2004 20, 9628-9635.

Record 214

2-butyl-5,8,14,17-tetrakis(3,7-dimethyloctyl)-11-(7-(5,8,14,17-tetrakis(3,7-dimethyloctyl)-11-propylhexabenzocoronene-2-yl)heptyl)hexabenzocoronene

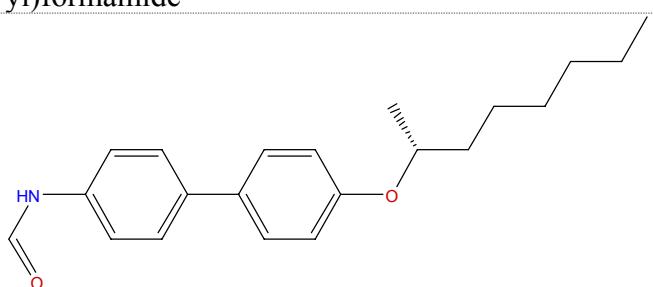


<i>plane group</i>	<i>p2</i>
<i>crystal class</i>	oblique
<i>Z</i>	2
<i>Z'</i>	1
<i>molecular symmetry</i>	C(1)
<i>site symmetry</i>	1
<i>molecular weight (Da)</i>	590.87
<i>multicomponent</i>	no

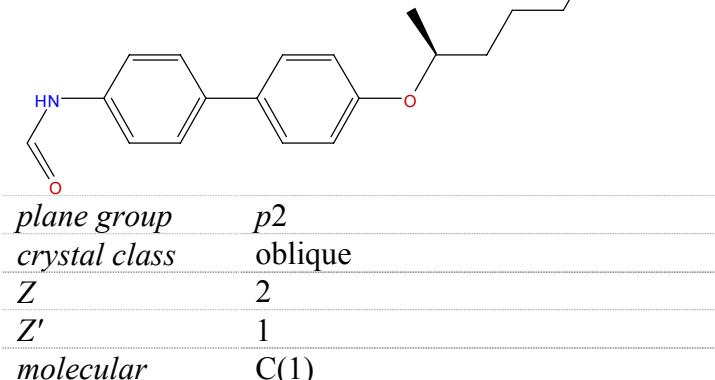
De Feyter, S., Gesquière, A., De Schryver, F., Meiners, C., Sieffert, M. & Müllen, K. Langmuir 2000 16, 9887-9894.

Record 213

racemic-N-(4'-(octan-2-yloxy)biphenyl-4-yl)formamide



<i>plane group</i>	<i>p2</i>
<i>crystal class</i>	oblique
<i>Z</i>	2
<i>Z'</i>	1
<i>molecular symmetry</i>	C(1)

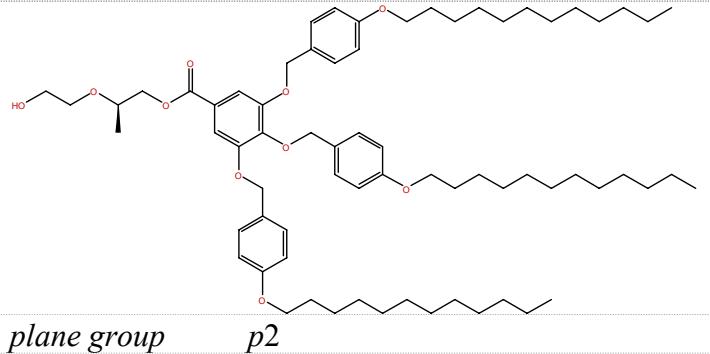


<i>plane group</i>	<i>p2</i>
<i>crystal class</i>	oblique
<i>Z</i>	2
<i>Z'</i>	1
<i>molecular symmetry</i>	depends on stereoisomer
<i>site symmetry</i>	1
<i>molecular weight (Da)</i>	2361.67
<i>multicomponent</i>	no

Watson, M. D., Jäckel, F., Severin, N., Rabe, J. P. & Müllen, K. J. Am. Chem. Soc. 2004 126, 1402-1407.

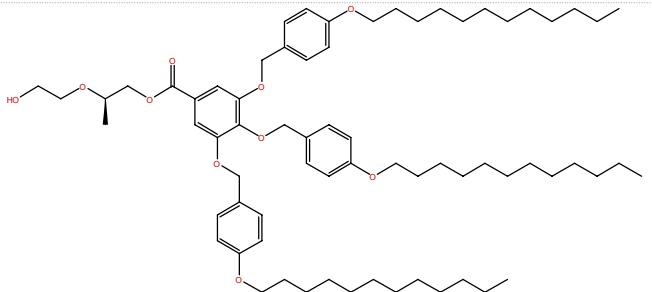
Record 215

(R)-2-(2-hydroxyethoxy)propyl 3,4,5-tris(4-(dodecyloxy)benzyloxy)benzoate



<i>plane group</i>	<i>p2</i>
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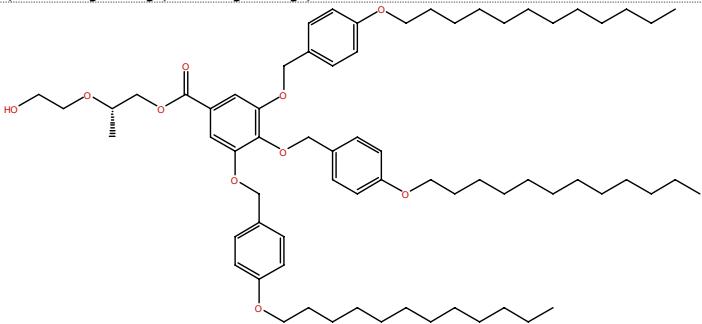
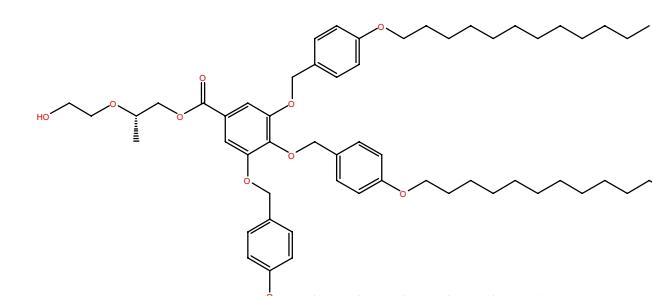
<i>crystal class</i>	oblique
Z	2
Z'	1
<i>molecular symmetry</i>	C(1)
<i>site symmetry</i>	1
<i>molecular weight (Da)</i>	1095.57
<i>multicomponent</i>	no



Mamdouh, W., Uji-i, H., Dulcey, A. E., Percec, V., De Feyter, S. & De Schryver, F. C. Langmuir 2004 20, 7678-7685.

Record 216

(S)-2-(2-hydroxyethoxy)propyl 3,4,5-tris(4-
(dodecyloxy)benzyloxy)benzoate



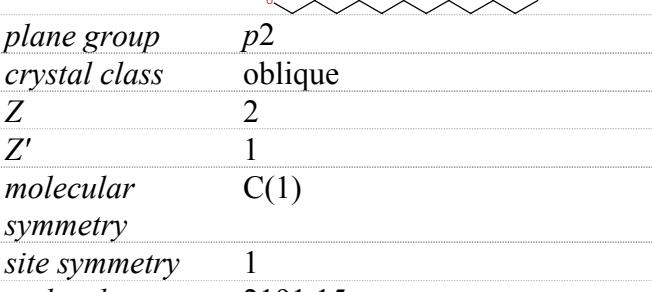
<i>plane group</i>	<i>p2</i>
<i>crystal class</i>	<i>oblique</i>
<i>Z</i>	<i>2</i>
<i>Z'</i>	<i>1</i>
<i>molecular symmetry</i>	<i>C(1)</i>
<i>site symmetry</i>	<i>1</i>
<i>molecular weight (Da)</i>	<i>1095.57</i>
<i>multicomponent</i>	<i>no</i>

Mamdouh, W., Uji-i, H.,
De Feyter, S. & De Schry
20, 7678-7685.

Mamdouh, W., Uji-i, H., Dulcey, A. E., Percec, V., De Feyter, S. & De Schryver, F. C. Langmuir 2004 20, 7678-7685.

Record 217

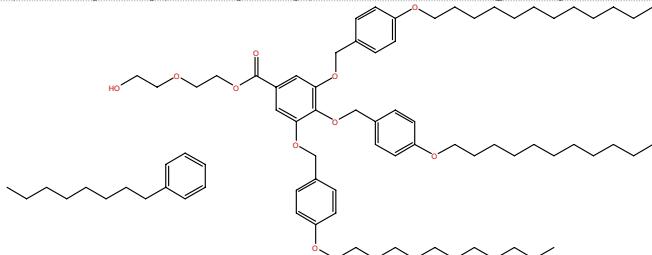
racemic-2-(2-hydroxyethoxy)propyl 3,4,5-tris(4-(dodecyloxy)benzyloxy)benzoate



weight (Da)
multicomponent yes
Mamdouh, W., Uji-i, H., Dulcey, A. E., Percec, V., De Feyter, S. & De Schryver, F. C. Langmuir 2004 20, 7678-7685.

Record 218

2-(2-hydroxyethoxy)ethyl 3,4,5-tris(4-(dodecyloxy)benzyloxy)benzoate and phenyloctane



racemic-2-(2-hydroxyethoxy)propyl 3,4,5-tris(4-
(dodecyloxy)benzyloxy)benzoate

<i>plane group</i>	<i>p2</i>
<i>crystal class</i>	<i>oblique</i>
<i>Z</i>	2
<i>Z'</i>	1
<i>molecular symmetry</i>	C(s), C(s)
<i>site symmetry</i>	1 1 1
<i>molecular</i>	1271.87

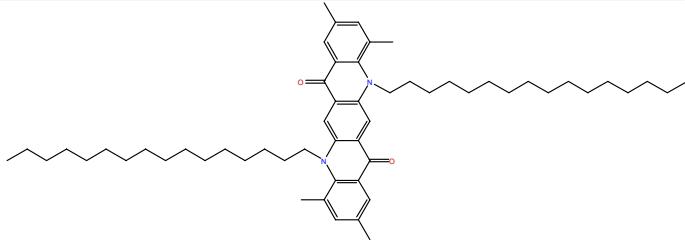
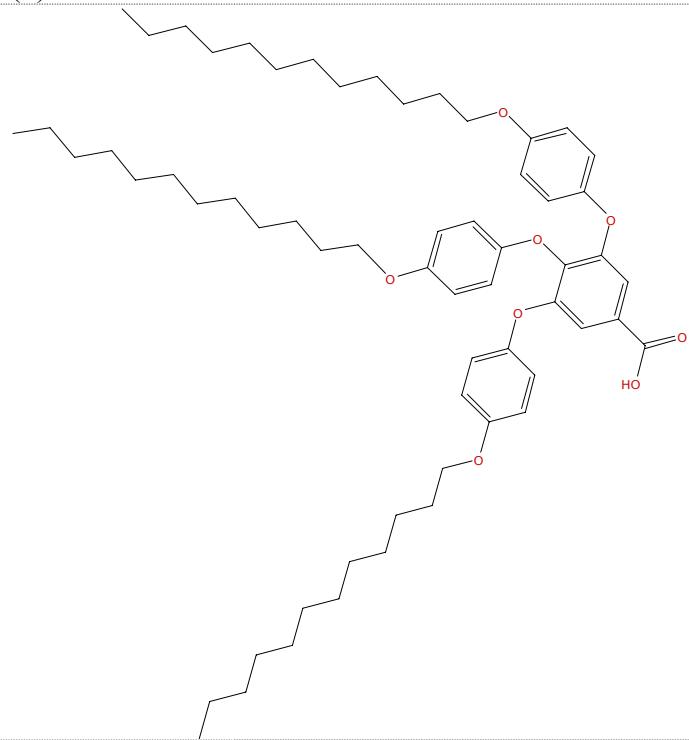
weight (Da)

multicomponent yes

Mamdouh, W., Uji-i, H., Dulcey, A. E., Percec, V., De Feyter, S. & De Schryver, F. C. Langmuir 2004 20, 7678-7685.

Record 219

3,4,5-Tris[4-(dodecyl-1-oxy)benzyloxy]benzoic Acid (3)



plane group

p2

crystal class

oblique

Z

2

Z'

1

molecular

C(s), C(2h)

symmetry

1

site symmetry

2

molecular

1101.76

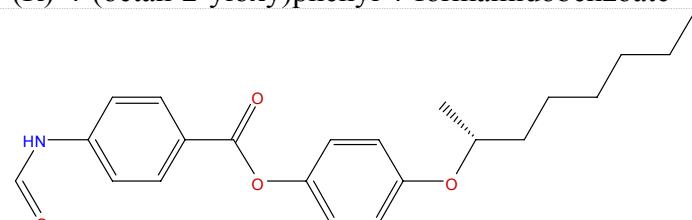
weight (Da)

multicomponent yes

Mu, Z., Wang, Z., Zhang, X., Ye, K. & Wang, Y. J. Phys. Chem. B 2004 108, 19955-19959.

Record 221

(R)-4-(octan-2-yloxy)phenyl 4-formamidobenzoate



plane group

p2

crystal class

oblique

Z

2

Z'

1

molecular

C(1)

symmetry

1

site symmetry

369.45

molecular

weight (Da)

multicomponent no

Mamdouh, W., Uji-i, H., Gesqui  re, A., De Feyter, S., Amabilino, D. B., Abdel-Mottaleb, M. M. S., Veciana, J. & De Schryver, F. C. Langmuir 2004 20, 9628-9635.

Record 220

1,3,8,10-tetramethyl-N,N'-dihexadecyl-quinacridone

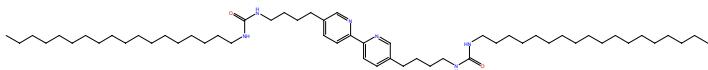
(TmQA-C16) and steric acid

Mourran, A., Beginn, U., Zipp, G. & M  ller, M. Langmuir 2004 20, 673-679.

Record 222

1,1'-(4,4'-(2,2'-bipyridine-5,5'-diyl)bis(butane-4,1-

diyl))bis(3-octadecylurea)

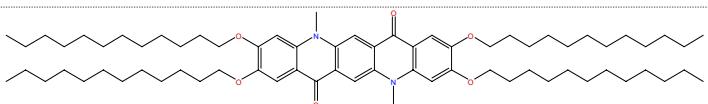


<i>plane group</i>	<i>p2</i>
<i>crystal class</i>	oblique
<i>Z</i>	1
<i>Z'</i>	0.5
<i>molecular symmetry</i>	C(2v)
<i>site symmetry</i>	2
<i>molecular weight (Da)</i>	889.43
<i>multicomponent</i>	no

De Feyter, S., Abdel-Mottaleb, M. M. S., Schuurmans, N., Verkuijl, B. J. V., Van Esch, J. H., Feringa, B. L. & De Schryver, F. C. *Chem.-Eur. J.* 2004 10, 1124-1132.

Record 223

2,3,9,10-tetrakis(dodecyloxy)-5,12-dimethylquinolino[2,3-b]acridine-7,14(5H,12H)-dione

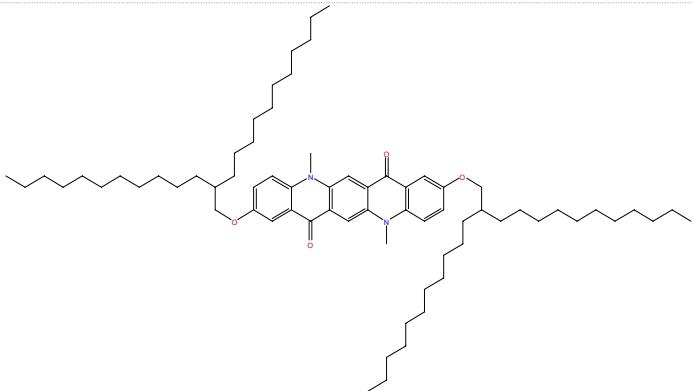


<i>plane group</i>	<i>p2</i>
<i>crystal class</i>	oblique
<i>Z</i>	1
<i>Z'</i>	0.5
<i>molecular symmetry</i>	C(2h)
<i>site symmetry</i>	2
<i>molecular weight (Da)</i>	1077.65
<i>multicomponent</i>	no

De Feyter, S., Gesqui  re, A., De Schryver, F. C., Keller, U. & M  llen, K. *Chem. Mater.* 2002 14, 989-997.

Record 224

5,12-dimethyl-2,9-bis(2-undecyltridecyloxy)quinolino[2,3-b]acridine-7,14(5H,12H)-dione

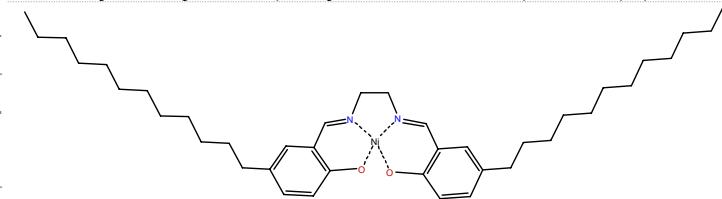


<i>plane group</i>	<i>p2</i>
<i>crystal class</i>	oblique
<i>Z</i>	1
<i>Z'</i>	0.5
<i>molecular symmetry</i>	C(2h)
<i>site symmetry</i>	2
<i>molecular weight (Da)</i>	1045.65
<i>multicomponent</i>	no

De Feyter, S., Gesqui  re, A., De Schryver, F. C., Keller, U. & M  llen, K. *Chem. Mater.* 2002 14, 989-997.

Record 225

bis(5-dodecylsalicylidene)ethylenediaminato)nickel(II)

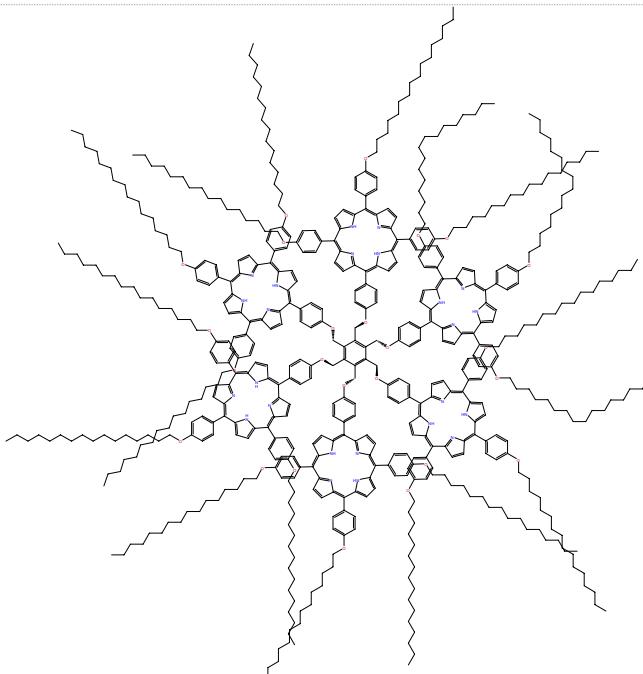


<i>plane group</i>	<i>p2</i>
<i>crystal class</i>	oblique
<i>Z</i>	2
<i>Z'</i>	1
<i>molecular symmetry</i>	C(2v)
<i>site symmetry</i>	1
<i>molecular weight (Da)</i>	661.63
<i>multicomponent</i>	no

Sakata, I. & Miyamura, K. *Chem. Commun.* 2003 156-157.

Record 226

hexakis(porphyrinato)benzene (H₂1)



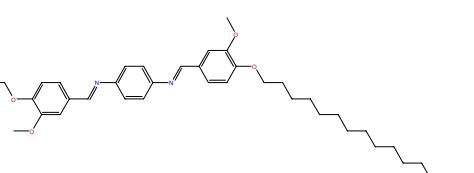
<i>plane group</i>	<i>p2</i>
<i>crystal class</i>	oblique
<i>Z</i>	2
<i>Z'</i>	1
<i>molecular symmetry</i>	S(6)
<i>site symmetry</i>	1
<i>molecular weight (Da)</i>	8342.44
<i>multicomponent</i>	no

Elemans, J. A. A. W., Lensen, M. C., Gerritsen, J. W., van Kempen, H., Speller, S., nolte, R. J. M. & Rowan, A. E. *Adv. Mater.* 2003 15, 2070-2073.

Record 227

N,N'-bis(3-methoxy-4-hexadecyloxybenzylidene)-1,4-phenylenediamine

(1b):



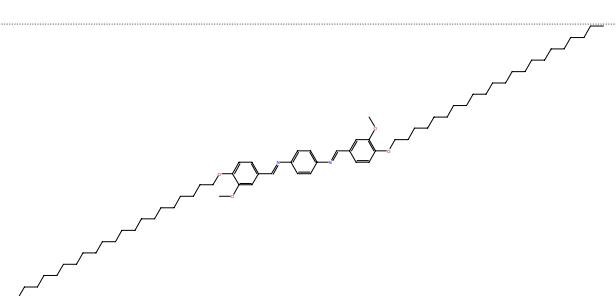
<i>plane group</i>	<i>p2</i>
<i>crystal class</i>	oblique
<i>Z</i>	2
<i>Z'</i>	1
<i>molecular symmetry</i>	C(2v)

<i>site symmetry</i>	1
<i>molecular weight (Da)</i>	825.26
<i>multicomponent</i>	no

Mu, Z.-C., Kong, J.-F., Wang, Y., Ye, L., Yang, G.-D. & Zhang, X. *ChemPhysChem* 2004 5, 202-208.

Record 228

N,N'-bis(3-methoxy-4-docosyloxybenzylidene)-1,4-phenylenediamine
(1c):

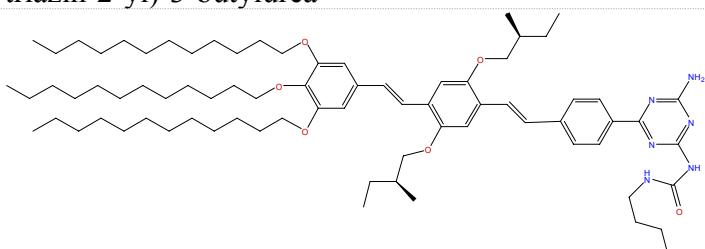


<i>plane group</i>	<i>p2</i>
<i>crystal class</i>	oblique
<i>Z</i>	1
<i>Z'</i>	0.5
<i>molecular symmetry</i>	C(2h)
<i>site symmetry</i>	2
<i>molecular weight (Da)</i>	993.57
<i>multicomponent</i>	no

Mu, Z.-C., Kong, J.-F., Wang, Y., Ye, L., Yang, G.-D. & Zhang, X. *ChemPhysChem* 2004 5, 202-208.

Record 229

1-(4-amino-6-(4-(2,5-bis((S)-2-methylbutoxy)-4-(3,4,5-tris(dodecyloxy)styryl)styryl)phenyl)-1,3,5-triazin-2-yl)-3-butylurea



<i>plane group</i>	<i>p2</i>
<i>crystal class</i>	oblique
<i>Z</i>	2
<i>Z'</i>	1
<i>molecular symmetry</i>	C(1)

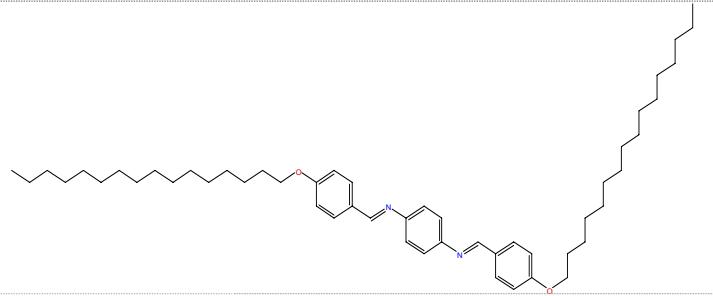
<i>plane group</i>	<i>p2</i>
<i>crystal class</i>	oblique
<i>Z</i>	2
<i>Z'</i>	1
<i>molecular symmetry</i>	C(1)

site symmetry 1
molecular weight (Da) 1215.82
multicomponent no

Gesqui  re, A., Jonkheijm, P., Hoeben, F. J. M., Schenning, A. P. H. J., De Feyter, S., De Schryver, F. C. & Meijer, E. W. *Nano Lett.* 2004 4, 1175-1179.

Record 230

N,N'-bis(4-hexadecyloxybenzylidene)-1,4-phenylenediamine (2b):

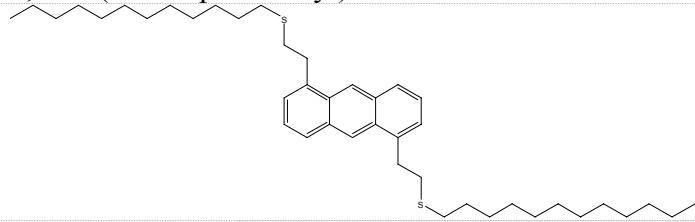


plane group $p2$
crystal class oblique
Z 1
Z' 0.5
molecular symmetry
site symmetry 2
molecular weight (Da) 765.20
multicomponent no

Mu, Z.-C., Kong, J.-F., Wang, Y., Ye, L., Yang, G.-D. & Zhang, X. *ChemPhysChem* 2004 5, 202-208.

Record 231

1,5-bis(3'-thia-pentadecyl)anthracene

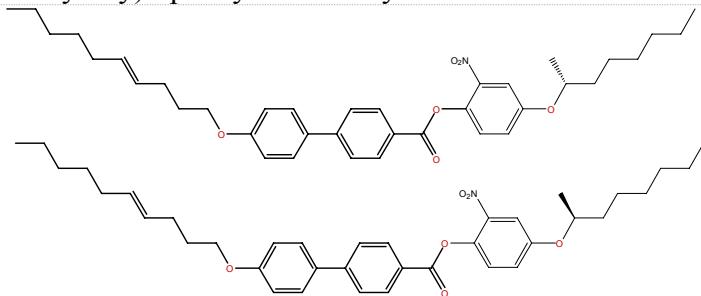


plane group $p2$
crystal class oblique
Z 1
Z' 0.5
molecular symmetry
site symmetry 2
molecular weight (Da) 635.10
multicomponent no

Wei, Y., Kannappan, K., Flynn, G. W. & Zimmt, M. *B. J. Am. Chem. Soc.* 2004 126, 5318-5322.

Record 232

racemic (E)-2-nitro-4-(octan-2-yloxy)phenyl 4'-(dec-4-enyloxy)biphenyl-4-carboxylate



plane group $p2$

crystal class oblique

Z 2

Z' 1

molecular symmetry $C(1)$

site symmetry 1

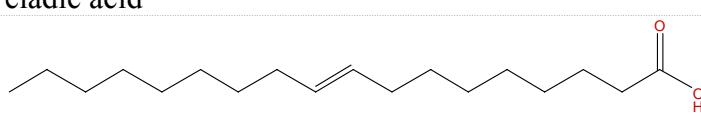
molecular weight (Da) 1203.54

multicomponent yes

Walba, D. M., Stevens, F. & Dyer, D. J. *Polym. Prepr. (Am. Chem. Soc., Div. Polym. Chem.)* 1996 37, 489-490.

Record 233

eladic acid



plane group $p2$

crystal class oblique

Z 2

Z' 1

molecular symmetry $C(s)$

site symmetry 1

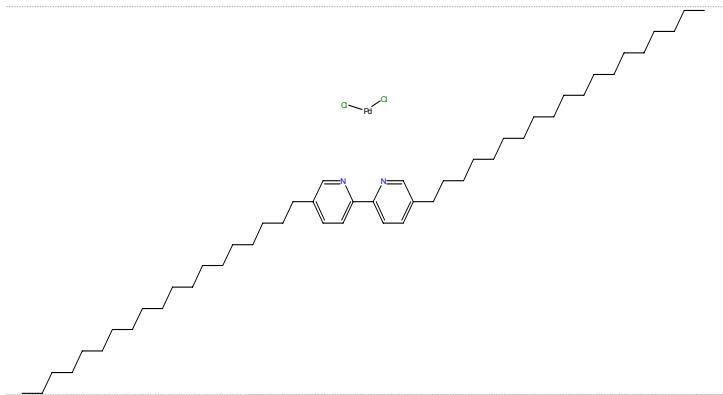
molecular weight (Da) 282.46

multicomponent no

Hibino, M., Sumi, A. & Hatta, I. *Jpn. J. Appl. Phys.*, Part 1 1995 34, 3354-3359.

Record 234

5-nonadecyl-2-(5-nonadecylpyridin-2-yl)pyridine



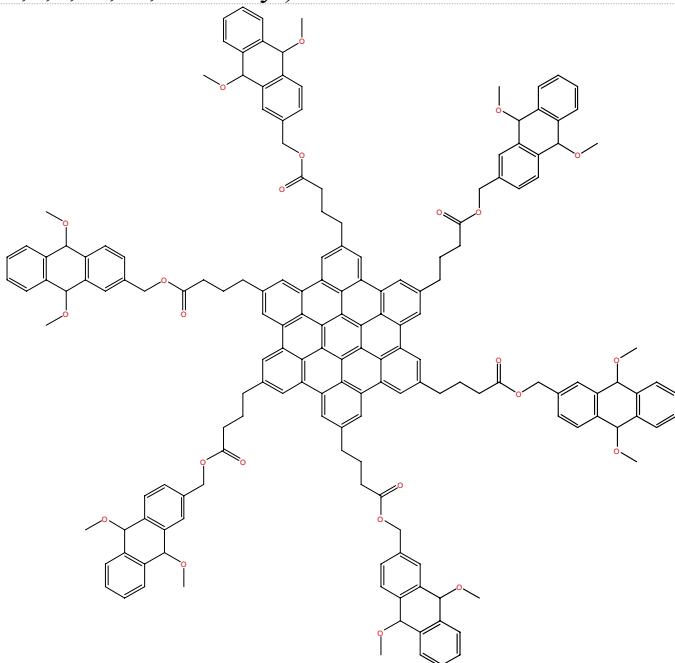
<i>plane group</i>	<i>p2</i>
<i>crystal class</i>	rectangular
<i>Z</i>	2
<i>Z'</i>	1
<i>molecular symmetry</i>	<i>C(2v)</i>
<i>site symmetry</i>	1
<i>molecular weight (Da)</i>	866.52
<i>multicomponent</i>	yes

De Feyter, S., Abdel-Mottaleb, M. M. S., Schuurmans, N., Verkuijl, B. J. V., Van Esch, J. H., Feringa, B. L. & De Schryver, F. C. *Chem.-Eur. J.* 2004, 10, 1124-1132.

De Feyter, S.; Abdel-Mottaleb, M. M. S.; Schuurmans, N.; Verkuijl, B. J. V.; Van Esch, J. H.; Feringa, B. L.; De Schryver, F. C. *Chem.-Eur. J.* 2004, 10, 1124-1132.

Record 236

hexakis((9,10-dimethoxy-9,10-dihydroanthracen-2-yl)methyl)
 4,4',4'',4''',4''''-(hexabenzo[bc,ef,hi,kl,no,qr]coronene-2,5,8,11,14,17-hexyl)hexabutanoate



Record 235

5-methyl-2-(5-nonaetylpyridin-2-yl)pyridine

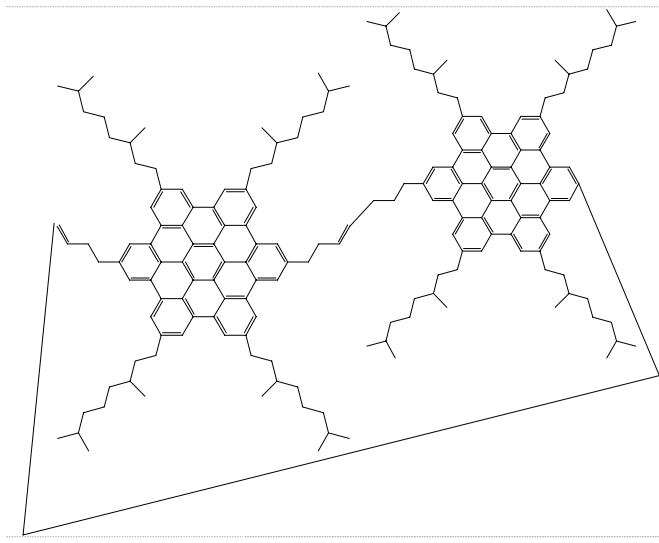
<i>plane group</i>	<i>p2</i>
<i>crystal class</i>	oblique
<i>Z</i>	2
<i>Z'</i>	1
<i>molecular symmetry</i>	<i>C(s)</i>
<i>site symmetry</i>	1 1
<i>molecular weight (Da)</i>	661.22
<i>multicomponent</i>	yes

<i>plane group</i>	<i>p2</i>
<i>crystal class</i>	oblique
<i>Z</i>	1
<i>Z'</i>	0.5
<i>molecular symmetry</i>	<i>C(6h)</i>
<i>site symmetry</i>	2
<i>molecular weight (Da)</i>	2552.97
<i>multicomponent</i>	no

Samori, P., Yin, X., Tchebotareva, N., Wang, Z., Pakula, T., Jäckel, F., Watson, M. D., Venturini, A., Müllen, K. & Rabe, J. P. *J. Am. Chem. Soc.* 2004, 126, 3567-3575.

Record 237

(E)-2-(but-3-enyl)-5,8,14,17-tetrakis(3,7-dimethyloctyl)-11-(7-(5,8,14,17-tetrakis(3,7-dimethyloctyl)-11-propylhexabenzocoronen-2-yl)hept-3-enyl)hexabenzocoronen-2-yl)coronene

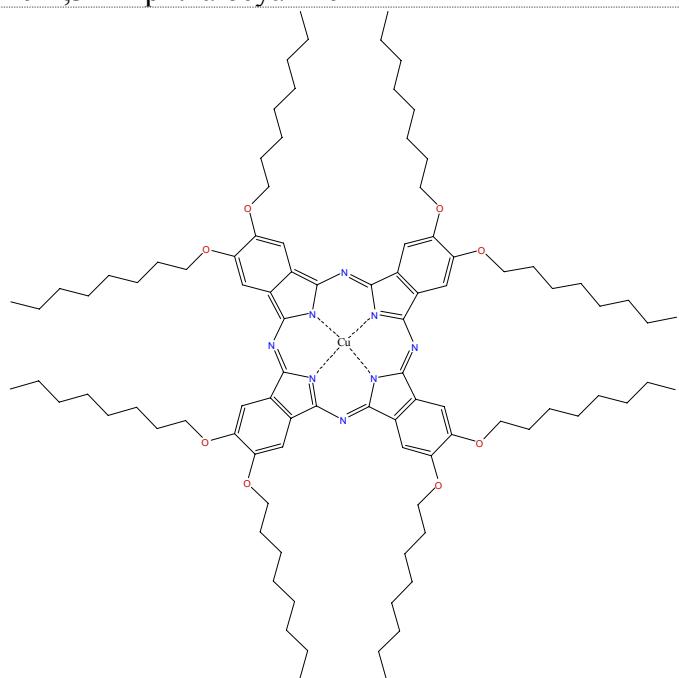


<i>plane group</i>	<i>p2</i>
<i>crystal class</i>	oblique
<i>Z</i>	1
<i>Z'</i>	0.5
<i>molecular symmetry</i>	depends on stereoisomer
<i>site symmetry</i>	2
<i>molecular weight (Da)</i>	2357.64
<i>multicomponent</i>	no

Watson, M. D., Jäckel, F., Severin, N., Rabe, J. P. & Müllen, K. J. Am. Chem. Soc. 2004 126, 1402-1407.

Record 238

Copper(II) 2,3,9,10,16,17,23,24-octakis(octyloxy)-29H,31H-phthalocyanine



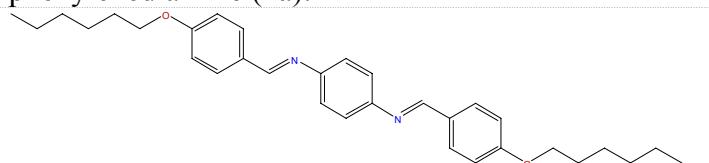
<i>plane group</i>	<i>p2</i>
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<i>crystal class</i>	oblique
<i>Z</i>	1
<i>Z'</i>	0.5
<i>molecular symmetry</i>	D(4h)
<i>site symmetry</i>	2
<i>molecular weight (Da)</i>	1601.77
<i>multicomponent</i>	no

Qiu, X. H., Wang, C., Yin, S. X., Zeng, Q. D., Xu, B. & Bai, C. L. J. Phys. Chem. B 2000 104, 3570-3574.

Record 239

N,N'-bis(4-hexyloxybenzylidene)-1,4-phenylenediamine (2a):



<i>plane group</i>	<i>p2</i>
<i>crystal class</i>	oblique
<i>Z</i>	1
<i>Z'</i>	0.5
<i>molecular symmetry</i>	C(2v)
<i>site symmetry</i>	2
<i>molecular weight (Da)</i>	484.67
<i>multicomponent</i>	no

Mu, Z.-C., Kong, J.-F., Wang, Y., Ye, L., Yang, G.-D. & Zhang, X. ChemPhysChem 2004 5, 202-208.

Record 240

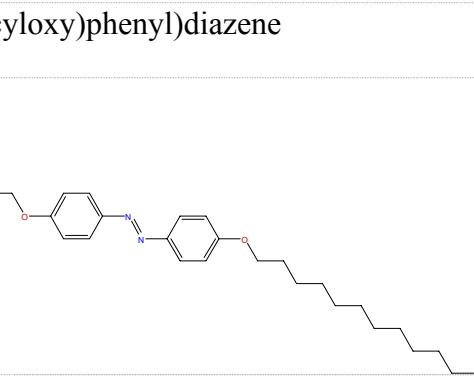
brassidic acid

<i>plane group</i>	<i>p2</i>
<i>crystal class</i>	oblique
<i>Z</i>	2
<i>Z'</i>	1
<i>molecular symmetry</i>	C(s)
<i>site symmetry</i>	1
<i>molecular weight (Da)</i>	338.57
<i>multicomponent</i>	no

Canet, D., Guillain, F. & Sanson, A. J. Trace Microprobe Tech. 1995 13, 361-362.

Record 241

1,2-bis(4-(dodecyloxy)phenyl)diazene
C12(AZO)C12

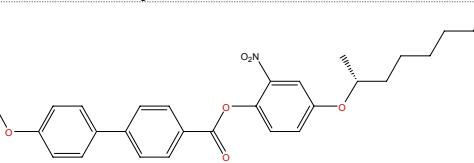


plane group	<i>p</i> 2
crystal class	oblique
<i>Z</i>	1
<i>Z'</i>	0.5
molecular symmetry	C(2h)
site symmetry	2
molecular weight (Da)	550.86
multicomponent	no

Grim, P. C. M., Vanoppen, P., Rücker, M., De Feyter, S., Valiyaveettil, S., Moessner, G., Müllen, K. & De Schryver, F. C. J. Vac. Sci. Technol., B 1997 15, 1419-1424.

Record 242

(R,E)-2-nitro-4-(octan-2-yloxy)phenyl 4'-(dec-4-enyloxy)biphenyl-4-carboxylate

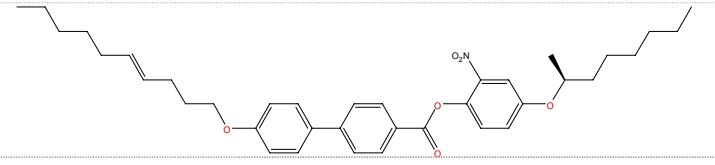


plane group	<i>p</i> 2
crystal class	oblique
<i>Z</i>	2
<i>Z'</i>	1
molecular symmetry	C(1)
site symmetry	1
molecular weight (Da)	601.77
multicomponent	no

Stevens, F., Dyer, D. J. & Walba, D. M. Angew. Chem., Int. Edit. 1996 35, 900-901.

Record 243

(S,E)-2-nitro-4-(octan-2-yloxy)phenyl 4'-(dec-4-enyloxy)biphenyl-4-carboxylate

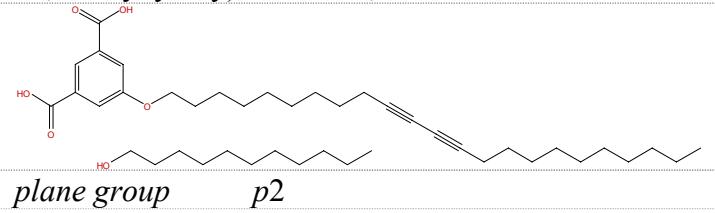


plane group	<i>p</i> 2
crystal class	oblique
<i>Z</i>	2
<i>Z'</i>	1
molecular symmetry	C(1)
site symmetry	1
molecular weight (Da)	601.77
multicomponent	no

Stevens, F., Dyer, D. J. & Walba, D. M. Angew. Chem., Int. Edit. 1996 35, 900-901.

Record 244

diacetylene isophthalic acid derivative 5-(tricos-10,12-diynyoxy)benzene-1,3-dioic acid

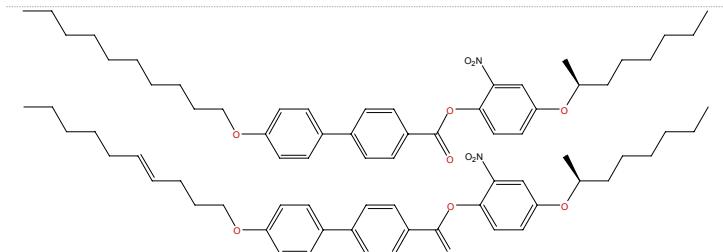


plane group	<i>p</i> 2
crystal class	oblique
<i>Z</i>	2
<i>Z'</i>	1
molecular symmetry	C(s), C(s)
site symmetry	1 1
molecular weight (Da)	668.99
multicomponent	yes

Grim, P. C. M., De Feyter, S., Gesquière, A., Vanoppen, P., Rücker, M., Valiyaveettil, S., Moessner, G., Müllen, K. & De Schryver, F. C. Angew. Chem., Int. Edit. 1997 36, 2601-2603.

Record 245

(S)-2-nitro-4-(octan-2-yloxy)phenyl 4'-(decyloxy)biphenyl-4-carboxylate with (S,E)-2-nitro-4-(octan-2-yloxy)phenyl 4'-(dec-4-enyloxy)biphenyl-4-carboxylate



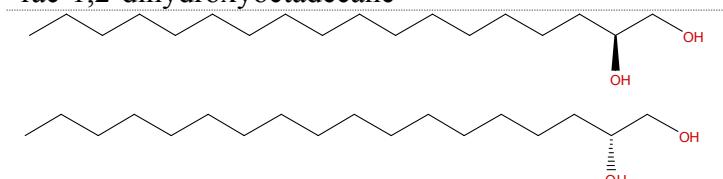
plane group *p*2
crystal class oblique

Z 2
Z' 1
molecular symmetry C(1)
site symmetry 1
molecular weight (Da) 1205.56

weight (Da)
multicomponent yes
Stevens, F., Dyer, D. J. & Walba, D. M. Langmuir 1996 12, 436-440.

Record 246

rac-1,2-dihydroxyoctadecane



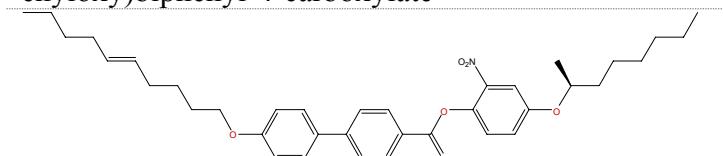
plane group *p*2
crystal class oblique

Z 2
Z' 1
molecular symmetry C(1)
site symmetry 1
molecular weight (Da) 572.99

weight (Da)
multicomponent yes
Qian, P., Nanjo, H., Yokoyama, T. & Suzuki, T. M. Chem. Lett. 1998 1133-1134.

Record 247

(S,E)-2-nitro-4-(octan-2-yloxy)phenyl 4'-(dec-5-enyloxy)biphenyl-4-carboxylate



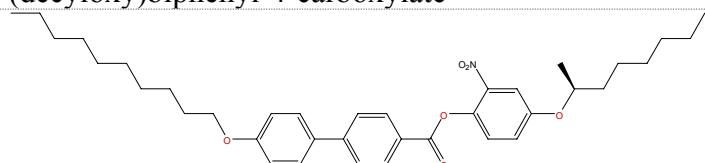
plane group *p*2
crystal class oblique
Z 2

Z'
molecular symmetry 1
site symmetry 1
molecular weight (Da) 601.77
multicomponent no

Stevens, F., Dyer, D. J. & Walba, D. M. Langmuir 1996 12, 436-440.

Record 248

(S)-2-nitro-4-(octan-2-yloxy)phenyl 4'-(decyloxy)biphenyl-4-carboxylate



plane group *p*2

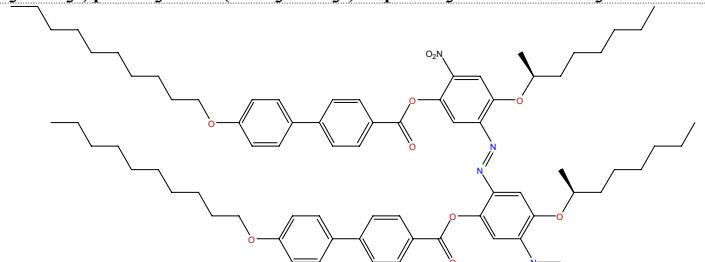
crystal class oblique

Z 2
Z' 1
molecular symmetry C(1)
site symmetry 1
molecular weight (Da) 603.79

multicomponent no
Stevens, F., Dyer, D. J. & Walba, D. M. Langmuir 1996 12, 436-440.

Record 249

5-((E)-(2-(4'-(decyloxy)biphenylcarbonyloxy)-4-(dimethylamino)-5-((S)-octan-2-yloxy)phenyl)diazenyl)-2-nitro-4-((S)-octan-2-yloxy)phenyl 4'-(decyloxy)biphenyl-4-carboxylate



plane group *p*2

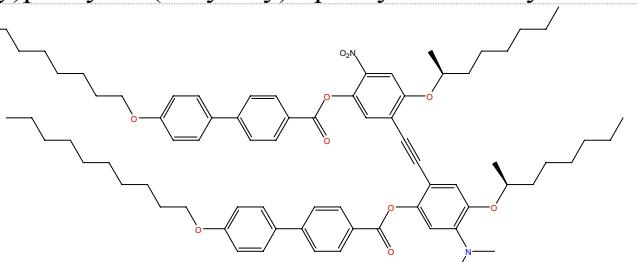
crystal class oblique

Z 2
Z' 1
molecular symmetry C(1)

<i>site symmetry</i>	1
<i>molecular weight (Da)</i>	1231.64
<i>multicomponent</i>	no
Stevens, F., Dyer, D. J., Müller, U. & Walba, D. M.	Langmuir 1996 12, 5625-5629.

Record 250

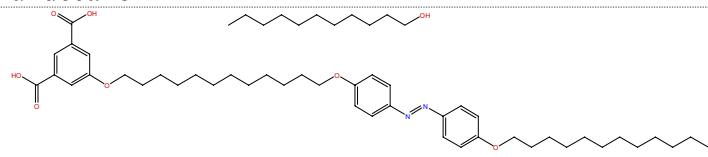
5-((2-(4'-(decyloxy)biphenylcarbonyloxy)-4-(dimethylamino)-5-((S)-octan-2-yloxy)phenyl)ethynyl)-2-nitro-4-((S)-octan-2-yloxy)phenyl 4'--(decyloxy)biphenyl-4-carboxylate



<i>plane group</i>	p2
<i>crystal class</i>	oblique
<i>Z</i>	2
<i>Z'</i>	1
<i>molecular symmetry</i>	C(1)
<i>site symmetry</i>	1
<i>molecular weight (Da)</i>	1227.65
<i>multicomponent</i>	no
Stevens, F., Dyer, D. J., Müller, U. & Walba, D. M.	Langmuir 1996 12, 5625-5629.

Record 251

(E)-5-(12-(4-((4-(dodecyloxy)phenyl)diazenyl)phenoxy)dodecyloxy)isophthalic acid (trans-C12(AZO)C12ISA) with undecanol



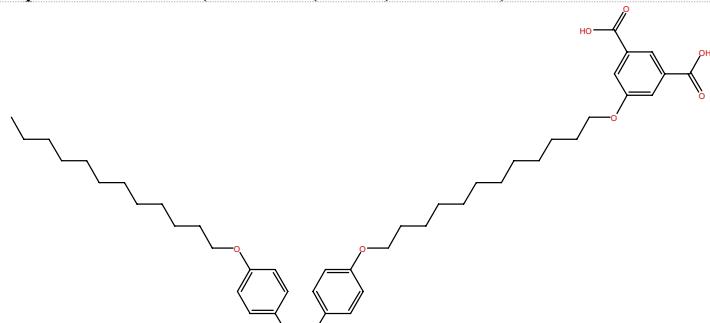
<i>plane group</i>	p2
<i>crystal class</i>	oblique
<i>Z</i>	2
<i>Z'</i>	1
<i>molecular symmetry</i>	C(s), C(s)
<i>site symmetry</i>	1 1

<i>molecular weight (Da)</i>	903.28
<i>multicomponent</i>	yes

Vanoppen, P., Grim, P. C. M., Rücker, M., De Feyter, S., Moessner, G., Valiyaveettil, S., Müllen, K. & De Schryver, F. C. J. Phys. Chem. 1996 100, 19636-19641.

Record 252

(Z)-5-(12-(4-((4-(dodecyloxy)phenyl)diazenyl)phenoxy)dodecyloxy)isophthalic acid (cis-C12(AZO)C12ISA)



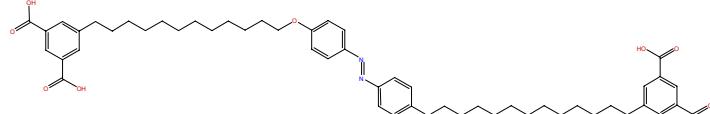
<i>plane group</i>	p2
<i>crystal class</i>	oblique
<i>Z</i>	2
<i>Z'</i>	1
<i>molecular symmetry</i>	C(1)
<i>site symmetry</i>	1
<i>molecular weight (Da)</i>	1227.65
<i>multicomponent</i>	no
Stevens, F., Dyer, D. J., Müller, U. & Walba, D. M.	Langmuir 1996 12, 5625-5629.

<i>plane group</i>	p2
<i>crystal class</i>	oblique
<i>Z</i>	2
<i>Z'</i>	1
<i>molecular symmetry</i>	C(s)
<i>site symmetry</i>	1
<i>molecular weight (Da)</i>	730.97
<i>multicomponent</i>	no

Vanoppen, P., Grim, P. C. M., Rücker, M., De Feyter, S., Moessner, G., Valiyaveettil, S., Müllen, K. & De Schryver, F. C. J. Phys. Chem. 1996 100, 19636-19641.

Record 253

(E)-5,5'-(12,12'-(4,4'-(diazene-1,2-diyl)bis(4,1-phenylene))bis(oxy)bis(dodecane-12,1-diyl))diisophthalic acid (ISA C12(ZAO)C12 ISA)



<i>plane group</i>	p2
<i>crystal class</i>	oblique
<i>Z</i>	2
<i>Z'</i>	1
<i>molecular symmetry</i>	C(s), C(s)
<i>site symmetry</i>	1 1

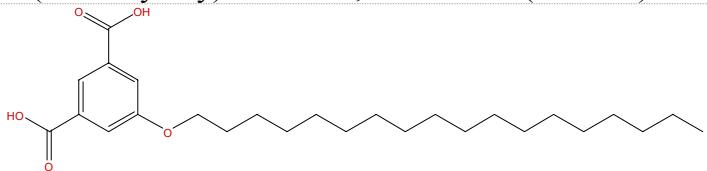
<i>plane group</i>	p2
<i>crystal class</i>	oblique

Z	1
Z'	0.5
<i>molecular symmetry</i>	C(2h)
<i>site symmetry</i>	2
<i>molecular weight (Da)</i>	879.09
<i>multi-component</i>	no

Grim, P. C. M., Vanoppen, P., Rücker, M., De Feyter, S., Valiyaveettil, S., Moessner, G., Müllen, K. & De Schryver, F. C. J. Vac. Sci. Technol., B 1997 15, 1419-1424.

Record 254

5-(octadecyloxy)benzene-1,3-dioic acid (C18ISA)

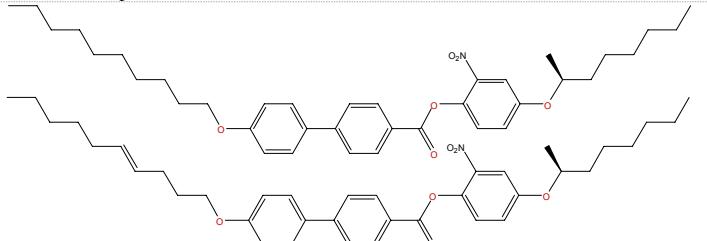


<i>plane group</i>	<i>p2</i>
<i>crystal class</i>	<i>oblique</i>
<i>Z</i>	<i>2</i>
<i>Z'</i>	<i>1</i>
<i>molecular symmetry</i>	<i>C(s)</i>
<i>site symmetry</i>	<i>1</i>
<i>molecular weight (Da)</i>	<i>434.61</i>
<i>multicomponent</i>	<i>no</i>

Vanoppen, P., Grim, P. C. M., Rücker, M., De Feyter, S., Moessner, G., Valiyaveettil, S., Müllen, K. & De Schryver, F. C. J. Phys. Chem. 1996 100, 19636-19641.

Record 255

(S)-2-nitro-4-(octan-2-yloxy)phenyl 4'-(decyloxy)biphenyl-4-carboxylate with (S,E)-2-nitro-4-(octan-2-yloxy)phenyl 4'-(dec-4-enyloxy)biphenyl-4-carboxylate



plane group $p2$
 crystal class oblique
 Z 2

<i>Z'</i>	1
<i>molecular symmetry</i>	C(1)
<i>site symmetry</i>	1
<i>molecular weight (Da)</i>	1205.56
<i>multicomponent</i>	yes

Stevens, F., Dyer, D. J. & Walba, D. M. Langmuir 1996 12, 436-440.

Record 256

triacontanoic acid or melissic acid

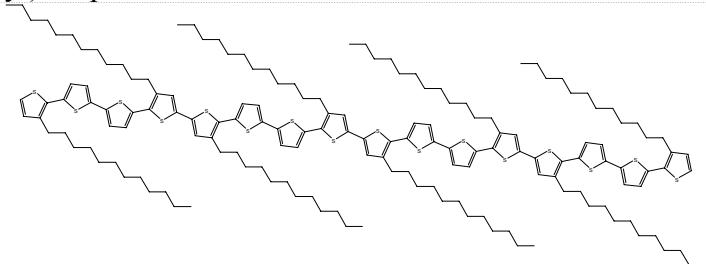


<i>plane group</i>	<i>p2</i>
<i>crystal class</i>	<i>oblique</i>
<i>Z</i>	2
<i>Z'</i>	1
<i>molecular symmetry</i>	C(s)
<i>site symmetry</i>	1
<i>molecular weight (Da)</i>	452.80
<i>multicomponent</i>	no
Canet, D., Guillain, F. & Sanson, A. J. Trace	

Canet, D., Guillain, F. & Sanson, A. J. Trace Microprobe Tech. 1995 13, 361-362.

Record 257

3-dodecyl-5-(4-dodecyl-5-(5-(5-(3-dodecyl-5-(4-dodecyl-5-(5-(3-dodecyl-5-(4-dodecyl-5-(5-(3-dodecylthiophen-2-yl)thiophen-2-yl)thiophen-2-yl)thiophen-2-yl)thiophen-2-yl)thiophen-2-yl)thiophen-2-

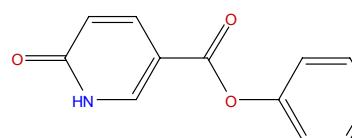


<i>plane group</i>	<i>p2</i>
<i>crystal class</i>	oblique
<i>Z</i>	1
<i>Z'</i>	0.5
<i>molecular symmetry</i>	C(2h)
<i>site symmetry</i>	2
<i>molecular</i>	2662.55

molecular symmetry	C(2h)
site symmetry	2
molecular weight (Da)	667.15
multicomponent	no
Bäuerle, P., Fischer, T., Bidlingmeier, B., Stabel, A. & Rabe, J. P. Angew. Chem., Int. Edit. 1995 34, 303-307.	

Record 261

2-pyridone-5-carboxylic-acid-[4'-(n-octyloxy)phenyl]-ester (PCA-E)

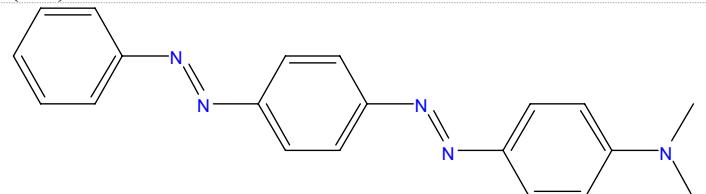


plane group	p2
crystal class	oblique
Z	2
Z'	1
molecular symmetry	C(s)
site symmetry	1
molecular weight (Da)	343.42
multicomponent	no

Heinz, R., Rabe, J. P., Meister, W.-V. & Hoffmann, S. "Structure and Dynamics of Two-Dimensional Adlayers of a 2-Pyridone Smectogen Studied by STM." Thin Solid Films 1995 264, 246-249.

Record 262

4-[4-(n,N-dimethylamino)phenylazo]azobenzene (D2)



plane group	p2
crystal class	oblique
Z	2
Z'	1
molecular symmetry	C(s)
site symmetry	1

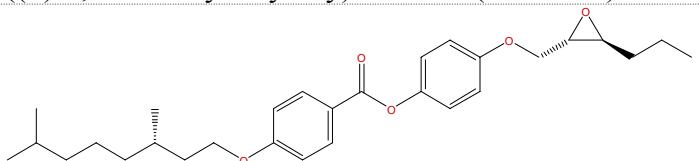
Stabel, A., Heinz, R., Rabe, J. P., Wegner, G., De Schryver, F. C., Corens, D., Dehaen, W. & Süling, C. "STM Investigation of 2D Crystals of Anthrone Derivatives on Graphite - Analysis of Molecular-Structure and Dynamics." J. Phys. Chem. 1995 99, 8690-8697.

molecular weight (Da)	329.40
multicomponent	no

Fritz, J., Probst, O., Dey, S., Grafström, S., Kowalski, J. & Neumann, R. Surf. Sci. 1995 329, L613-L618.

Record 263

4-(((2S,3S)-3-propyloxiran-2-yl)methoxy)phenyl 4-((S)-3,7-dimethyloctyloxy)benzoate (MDW 74)

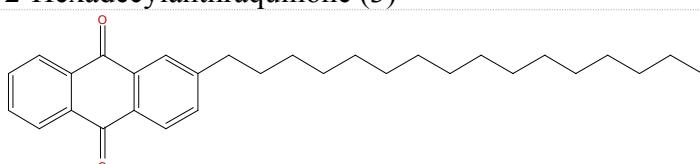


plane group	p2
crystal class	oblique
Z	2
Z'	1
molecular symmetry	C(1)

site symmetry	1
molecular weight (Da)	468.62
multicomponent	no
Walba, D. M., Stevens, F., Parks, D. C., Clark, N. A. & Wand, M. D. Science 1995 267, 1144-1147.	

Record 264

2-Hexadecylanthraquinone (3)



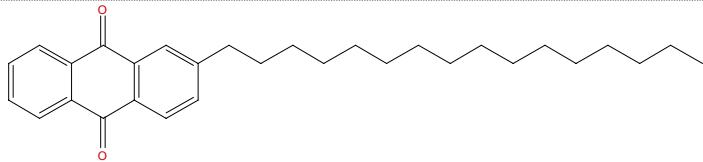
plane group	p2
crystal class	oblique
Z	2
Z'	1
molecular symmetry	C(s)

site symmetry	1
molecular weight (Da)	432.64
multicomponent	no

Stabel, A., Heinz, R., Rabe, J. P., Wegner, G., De Schryver, F. C., Corens, D., Dehaen, W. & Süling, C. "STM Investigation of 2D Crystals of Anthrone Derivatives on Graphite - Analysis of Molecular-Structure and Dynamics." J. Phys. Chem. 1995 99, 8690-8697.

Record 265

2-Hexadecylanthraquinone (3)

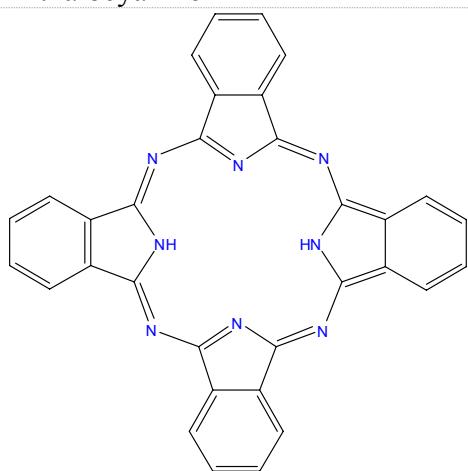


plane group	<i>p</i> 2
crystal class	oblique
<i>Z</i>	2
<i>Z'</i>	1
molecular symmetry	C(s)
site symmetry	1
molecular weight (Da)	432.64
multicomponent	no

Stabel, A., Heinz, R., Rabe, J. P., Wegner, G., De Schryver, F. C., Corens, D., Dehaen, W. & Süling, C. *J. Phys. Chem.* 1995 **99**, 8690-8697.

Record 266

Phthalocyanine

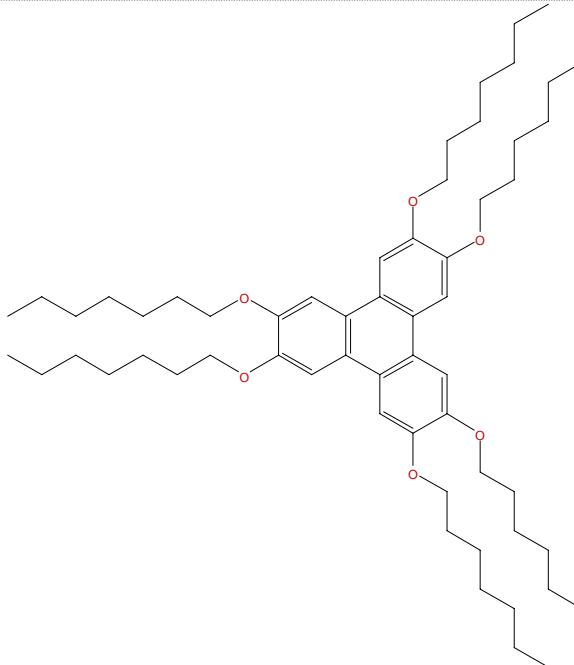


plane group	<i>p</i> 2
crystal class	oblique
<i>Z</i>	1
<i>Z'</i>	0.5
molecular symmetry	C(2h)
site symmetry	2
molecular weight (Da)	805.97
multicomponent	no

Grafström, S., Probst, O., Dey, S., Freund, J., Kowalski, J., Neumann, R., Wörtge, M. & Zu Putlitz, G. *Proc. SPIE-Int. Soc. Opt. Eng.* 1993 **1891**, 56-65.

Record 267

hexakis-2,3,6,7,10,11-heptyloxytriphenylene

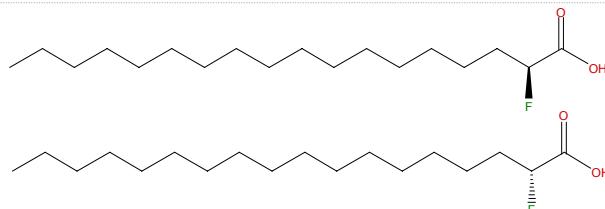


plane group	<i>p</i> 2
crystal class	oblique
<i>Z</i>	2
<i>Z'</i>	1
molecular symmetry	D(3h)
site symmetry	1
molecular weight (Da)	913.40
multicomponent	no

Askadskaya, L., Boeffel, C. & Rabe, J. P. *Ber. Bunsen.-Ges.* 1993 **97**, 517-521.

Record 268

2-fluoroctadecanoic acid



plane group	<i>p</i> 2
crystal class	oblique
<i>Z</i>	2
<i>Z'</i>	1
molecular symmetry	C(1)
site symmetry	1
molecular weight (Da)	604.94

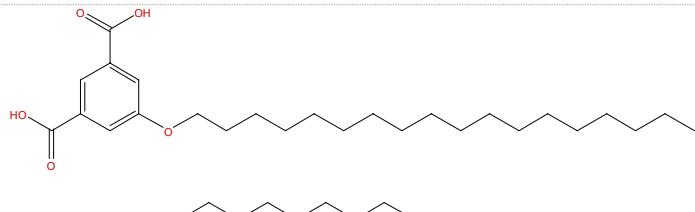
weight (Da)

multicomponent yes

Stabel, A., Dasaradhi, L., O'Hagan, D. & Rabe, J. P. Langmuir 1995 11, 1427-1430.

Record 269

5-(octadecyloxy)isophthalic acid (C18ISA) coadsorbed with octanol



plane group

crystal class oblique

Z 2

Z' 1

molecular symmetry C(s), C(s)

site symmetry

1 1

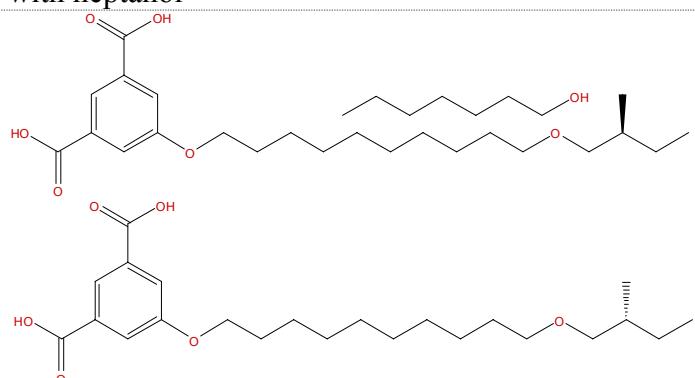
molecular weight (Da) 564.84

multicomponent yes

Vanoppen, P., Grim, P. C. M., Rücker, M., De Feyter, S., Moessner, G., Valiyaveettil, S., Müllen, K. & De Schryver, F. C. J. Phys. Chem. 1996 100, 19636-19641.

Record 270

5-[10-(2-methylbutoxy)-decyloxy]isophthalic acid with heptanol



plane group

crystal class oblique

Z 2

Z' 1

molecular symmetry C(1), C(s)

site symmetry

1 1

molecular weight (Da) 933.26

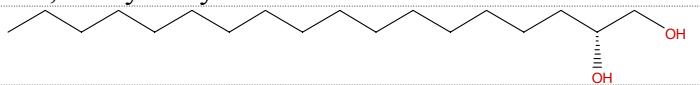
weight (Da)

multicomponent yes

De Feyter, S., Grim, P. C. M., Rücker, M., Vanoppen, P., Meiners, C., Sieffert, M., Valiyaveettil, S., Müllen, K. & De Schryver, F. C. Angew. Chem., Int. Edit. 1998 37, 1223-1226.

Record 271

S-1,2-dihydroxyoctadecane



plane group

crystal class p2 oblique

Z 2

Z' 1

molecular symmetry C(1)

site symmetry

1 1

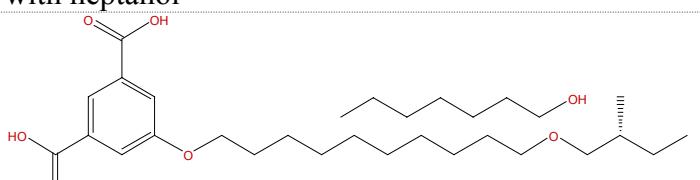
molecular weight (Da) 286.49

multicomponent no

Qian, P., Nanjo, H., Yokoyama, T. & Suzuki, T. M. Chem. Lett. 1998 1133-1134.

Record 272

R-5-[10-(2-methylbutoxy)-decyloxy]isophthalic acid with heptanol



plane group

crystal class p2 oblique

Z 2

Z' 1

molecular symmetry C(1), C(s)

site symmetry

1 1

molecular weight (Da) 524.73

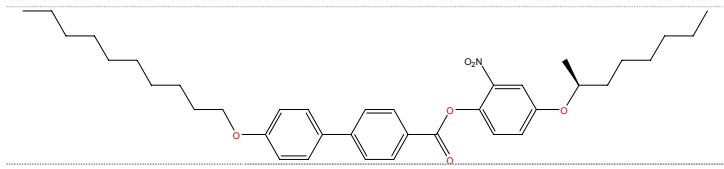
multicomponent yes

De Feyter, S., Grim, P. C. M., Rücker, M., Vanoppen, P., Meiners, C., Sieffert, M., Valiyaveettil, S., Müllen, K. & De Schryver, F. C. Angew. Chem., Int. Edit. 1998 37, 1223-1226.

Record 273

(S)-2-nitro-4-(octan-2-yloxy)phenyl (decyloxy)biphenyl-4-carboxylate

4'-



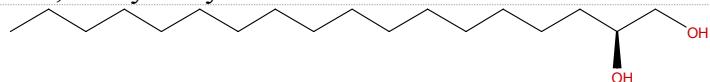
plane group *p2*
crystal class oblique
Z 2
Z' 1
molecular symmetry *C(1)*

site symmetry 1
molecular weight (Da) 603.79
multicomponent no

Stevens, F., Dyer, D. J. & Walba, D. M. Langmuir 1996 12, 436-440.

Record 274

R-1,2-dihydroxyoctadecane



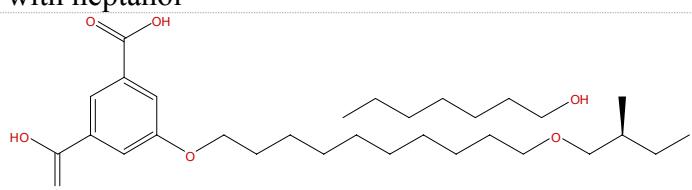
plane group *p2*
crystal class oblique
Z 2
Z' 1
molecular symmetry *C(1)*

site symmetry 1
molecular weight (Da) 286.49
multicomponent no

Qian, P., Nanjo, H., Yokoyama, T. & Suzuki, T. M. Chem. Lett. 1998 1133-1134.

Record 275

S-5-[10-(2-methylbutoxy)-decyloxy]isophthalic acid with heptanol



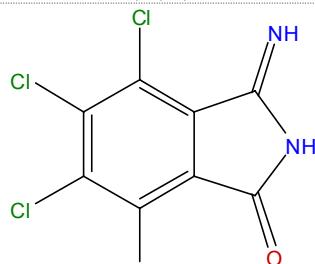
plane group *p2*
crystal class oblique
Z 2
Z' 1
molecular symmetry *C(1), C(s)*

site symmetry *1*
molecular weight (Da) 524.73
multicomponent yes

De Feyter, S., Grim, P. C. M., Rücker, M., Vanoppen, P., Meiners, C., Sieffert, M., Valiyaveettil, S., Müllen, K. & De Schryver, F. C. Angew. Chem., Int. Edit. 1998 37, 1223-1226.

Record 276

3-imino-4,5,6,7-tetrachloroisooindolin-1-one (ITCII)



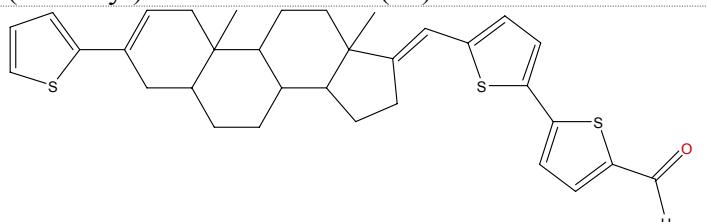
plane group *p1*
crystal class oblique
Z 1
Z' 1

molecular symmetry *C(s)*
site symmetry 1
molecular weight (Da) 283.93
multicomponent no

Isoda, S., Nemoto, T., Fujiwara, E., Adachi, Y. & Kobayashi, T. J. Cryst. Growth 2001 229, 574-579.

Record 277

17-[(5'-formyl-2,2'-bithienyl-5-yl)-methylidene]-3-(2-thienyl)-5a-androst-2-ene (6b)



plane group *p1*
crystal class oblique
Z 1
Z' 1

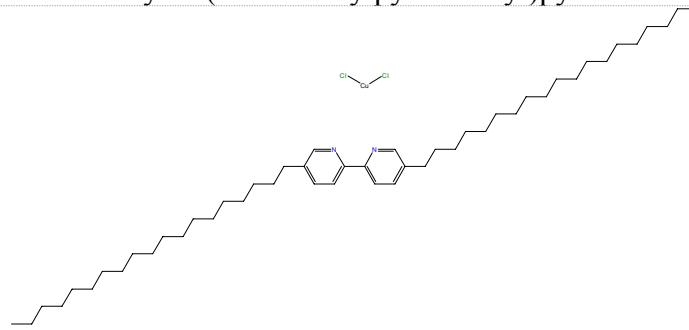
molecular symmetry *C(1)*
site symmetry 1
molecular weight (Da) 544.83

multicomponent no

Vollmer, M. S., Effenberger, F., Stecher, R., Gompf, B. & Eisenmenger, W. Chem.-Eur. J. 1999, 5, 96-101.

Record 278

5-nonadecyl-2-(5-nonadecylpyridin-2-yl)pyridine



plane group p1

crystal class oblique

Z 1

Z' 1

molecular C(2v)

symmetry

site symmetry 1

molecular 823.65

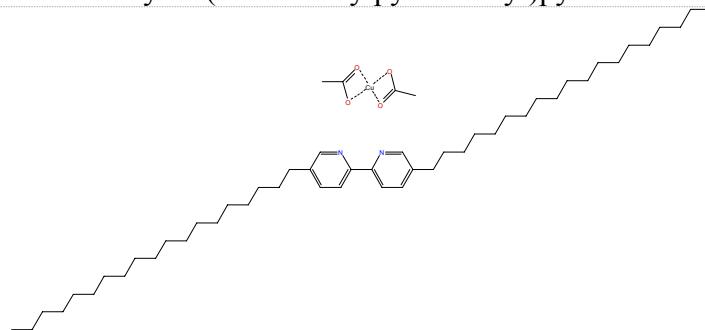
weight (Da)

multicomponent yes

De Feyter, S., Abdel-Mottaleb, M. M. S., Schuurmans, N., Verkuijl, B. J. V., Van Esch, J. H., Feringa, B. L. & De Schryver, F. C. Chem.-Eur. J. 2004, 10, 1124-1132.

Record 279

5-nonadecyl-2-(5-nonadecylpyridin-2-yl)pyridine



plane group p1

crystal class oblique

Z 1

Z' 1

molecular C(2v)

symmetry

site symmetry 1

molecular 870.83

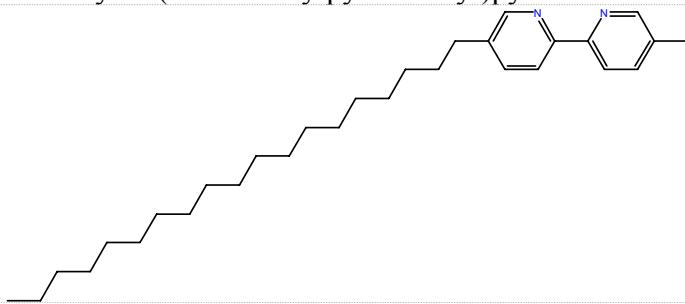
weight (Da)

multicomponent yes

De Feyter, S., Abdel-Mottaleb, M. M. S., Schuurmans, N., Verkuijl, B. J. V., Van Esch, J. H., Feringa, B. L. & De Schryver, F. C. Chem.-Eur. J. 2004, 10, 1124-1132.

Record 280

5-methyl-2-(5-nonadecylpyridin-2-yl)pyridine



plane group p1

crystal class oblique

Z 1

Z' 1

molecular C(s)

symmetry

site symmetry 1

molecular 436.72

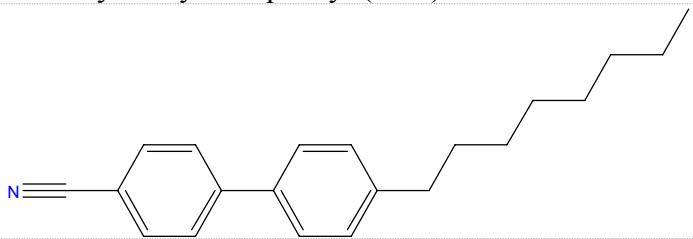
weight (Da)

multicomponent no

De Feyter, S.; Abdel-Mottaleb, M. M. S.; Schuurmans, N.; Verkuijl, B. J. V.; Van Esch, J. H.; Feringa, B. L.; De Schryver, F. C. Chem.-Eur. J. 2004, 10, 1124-1132.

Record 281

4-n-octyl-4'-cyanobiphenyl (8CB)



plane group p1

crystal class oblique

Z 7

Z' 7

molecular C(s)

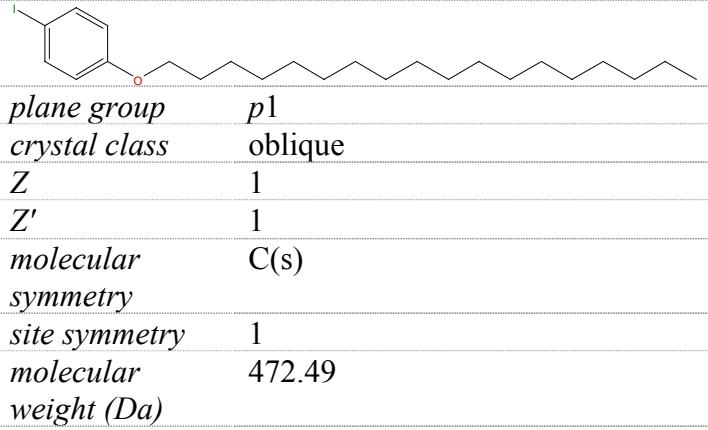
symmetry

site symmetry	1 1 1 1 1 1 1
molecular weight (Da)	291.43
multicomponent	no

Mcmaster, T. J., Carr, H., Miles, M. J., Cairns, P. & Morris, V. J. *Liq. Cryst.* 1991 9, 11-18.

Record 282

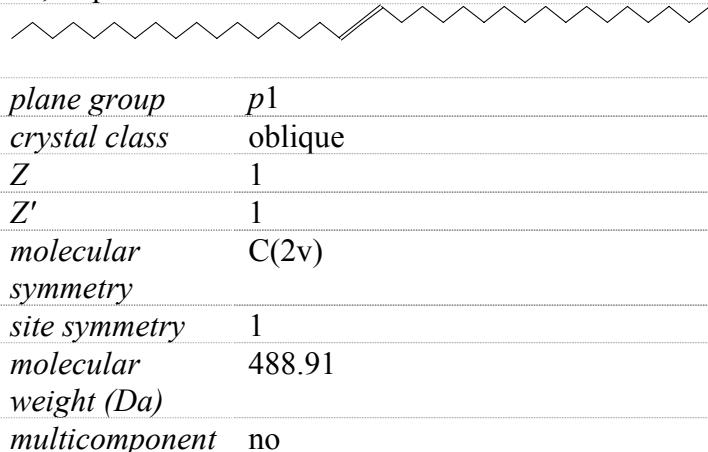
iodo-phenyloctadecyl ether



Lee, H. S., Iyengar, S. & Musselman, I. H. *Langmuir* 1998 14, 7475-7483.

Record 283

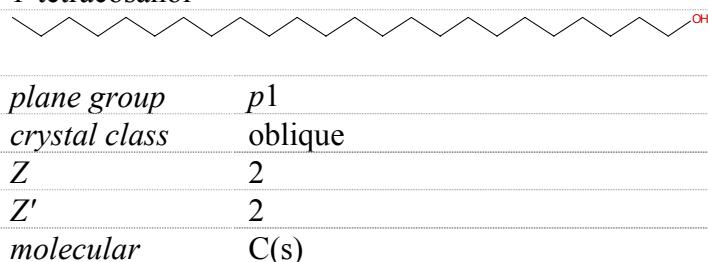
17,18-pentatriacontadiene



Claypool, C. L., Faglioni, F., Goddard, W. A. & Lewis, N. S. *J. Phys. Chem. B* 1999 103, 7077-7080.

Record 284

1-tetracosanol

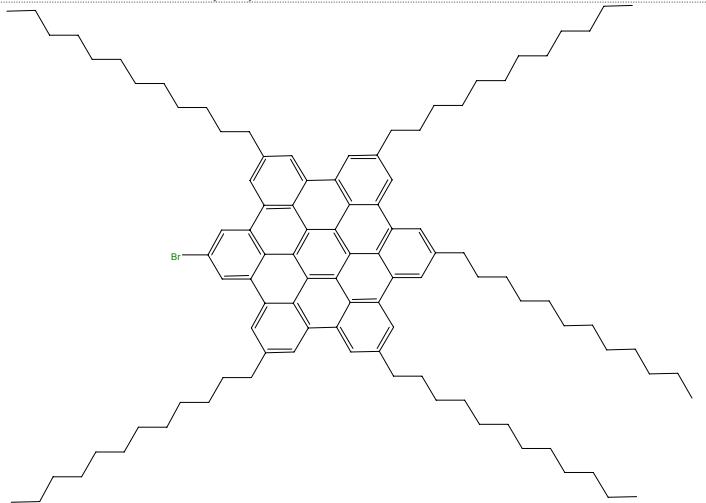


symmetry	
site symmetry	1 1
molecular weight (Da)	354.65
multicomponent	no

Buchholz, S. & Rabe, J. P. *Angew. Chem., Int. Edit.* 1992 31, 189-191.

Record 285

2-bromo-5,8,11,14,17-pentadodecylhexa-peri-hexa-benzocoronene (2a)

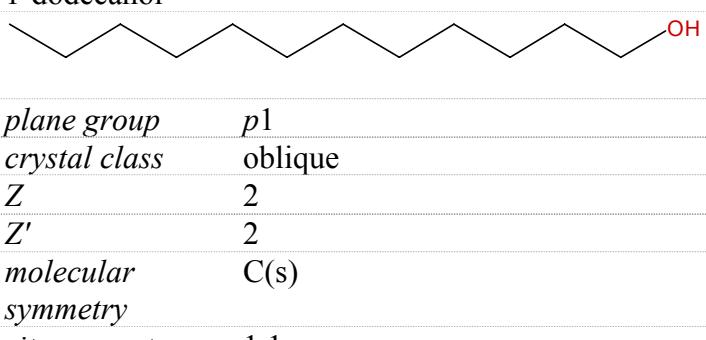


plane group	$p1$
crystal class	oblique
Z	7
Z'	7
molecular symmetry	
site symmetry	1 1 1 1 1 1 1
molecular weight (Da)	1443.08
multicomponent	no

Ito, S., Wehmeier, M., Brand, J. D., Kübel, C., Epsch, R., Rabe, J. P. & Müllen, K. *Chem.-Eur. J.* 2000 6, 4327-4342.

Record 286

1-dodecanol



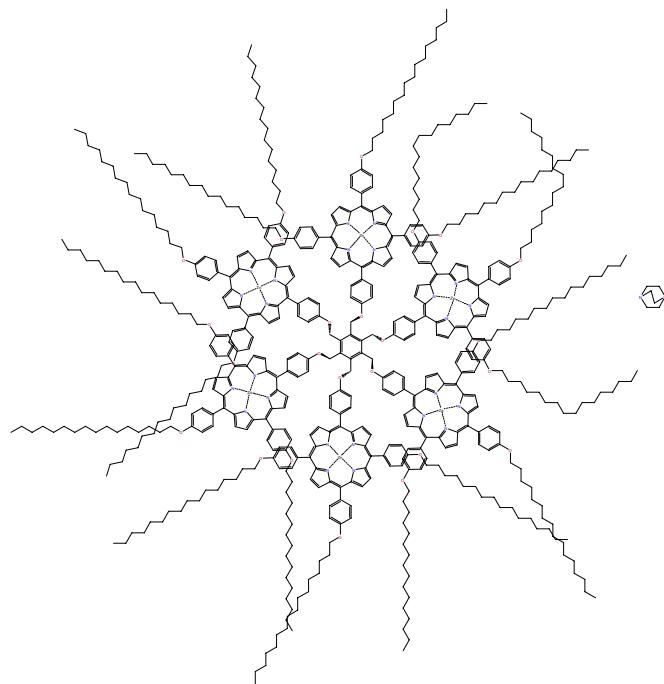
molecular weight (Da) 186.33

multicomponent no

Yeo, Y. H., McGonigal, G. C. & Thomson, D. J. Langmuir 1993 9, 649-651.

Record 287

hexakis(zinc (II) porphyrinato)benzene (Zn1) and DABCO



plane group *p1*
crystal class oblique

Z 1

Z' 1

molecular symmetry S(6), D(3d)

site symmetry 1 1

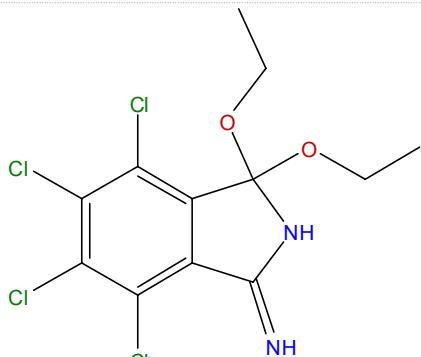
molecular weight (Da) 8834.86

multicomponent yes

Elemans, J. A. A. W., Lensen, M. C., Gerritsen, J. W., van Kempen, H., Speller, S., nolte, R. J. M. & Rowan, A. E. Adv. Mater. 2003 15, 2070-2073.

Record 288

1,1-diethoxy-3-imino-4,5,6,7-tetrachloroisooindoline (DEITCI)



plane group *p1*
crystal class oblique

Z 1

Z' 1

molecular symmetry C(s)

site symmetry 1

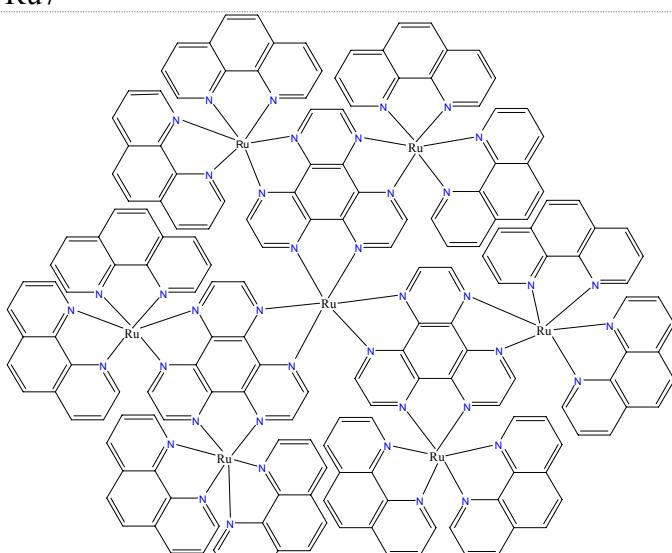
molecular weight (Da) 358.05

multicomponent no

Nemoto, T., Adachi, Y., Fujiwara, E. & Isoda, S. Mol. Cryst. Liq. Cryst. Sci. Technol., Sect. A 2002 389, 97-104.

Record 289

Ru7



plane group *p1*
crystal class oblique

Z 1

Z' 1

molecular symmetry C(1)

site symmetry 1

molecular weight (Da) 3572.60

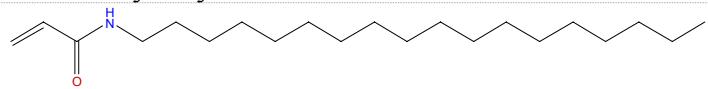
weight (Da)

multicomponent no

Latterini, L., Pourtois, G., Moucheron, C., Lazzaroni, R., Brédas, J.-L., Mesmaeker, A. K.-D. & De Schryver, F. C. *Chem.-Eur. J.* 2000 6, 1331-1336.

Record 290

n-octadecylacrylamide



plane group p1

crystal class oblique

Z 1

Z' 1

molecular symmetry C(s)

site symmetry 1

molecular weight (Da) 323.56

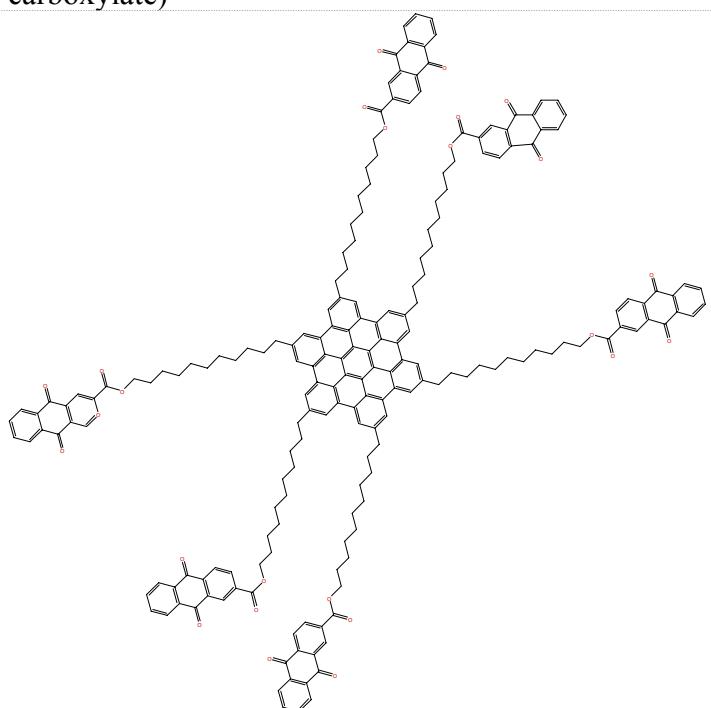
multicomponent no

Qian, P., Nanjo, H., Yokoyama, T., Suzuki, T. M. & Miyashita, T. *Chem. Commun.* 1998 943-944.

Record 291

11,11',11'',11''',11''''-
(hexabenzo[bc,ef,hi,kl,no,qr]coronene-

2,5,8,11,14,17-hexyl)hexakis(undecane-11,1-diyl)
hexakis(9,10-dioxo-9,10-dihydroanthracene-2-
carboxylate)



plane group

crystal class

Z 1

Z' 1

molecular symmetry C(6h)

site symmetry 1

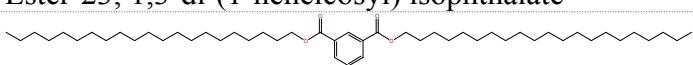
molecular weight (Da) 2949.58

multicomponent no

Jäckel, F., Yin, X., Samorí, P., Tchebotareva, N., Watson, M. D., Venturini, A., Müllen, K. & Rabe, J. P. *Synth. Met.* 2004 147, 5-9.

Record 292

Ester-23; 1,3-di-(1-heneicosyl) isophthalate



plane group p1

crystal class oblique

Z 5

Z' 5

molecular symmetry C(2v)

site symmetry 1 1 1 1 1

molecular weight (Da) 755.25

multicomponent no

Plass, K. E., Kim, K. & Matzger, A. J. *J. Am. Chem. Soc.* 2004 126, 9042-9053.

Record 293

octadecamine



plane group p1

crystal class oblique

Z 2

Z' 2

molecular symmetry C(s)

site symmetry 1 1

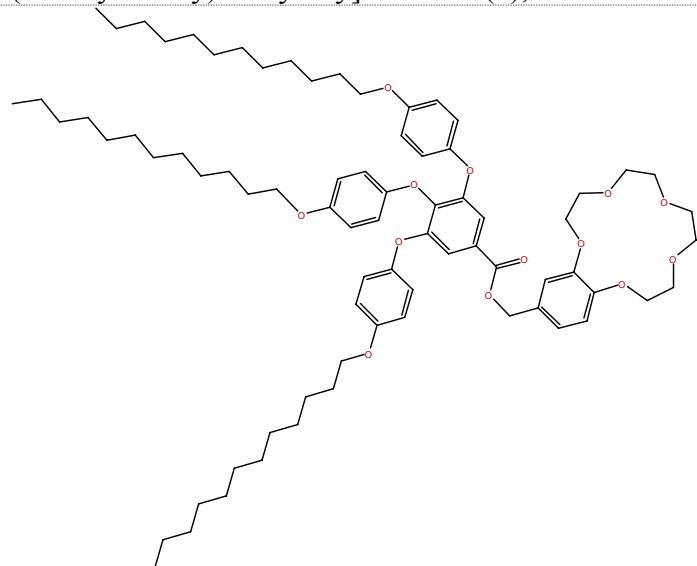
molecular weight (Da) 269.51

multicomponent no

Cyr, D. M., Venkataraman, B., Flynn, G. W., Black, A. & Whitesides, G. M. *J. Phys. Chem.* 1996 100, 13747-13759.

Record 294

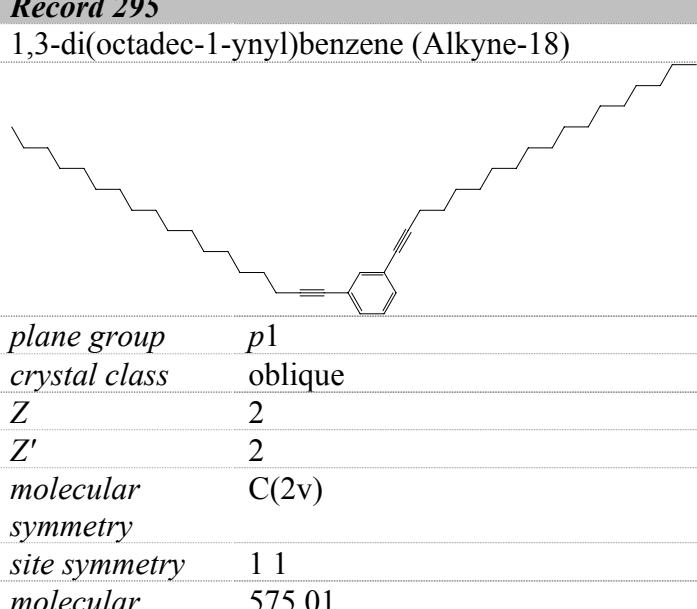
2-Hydroxymethyl-[1,4,7,10,13-pentaoxabenzocyclopentadecane]-3,4,5-tris[4-(dodecyl-1-oxy)benzyloxy]benzoate (2),



plane group	p1
crystal class	oblique
Z	1
Z'	1
molecular symmetry	C(s)
site symmetry	1
molecular weight	1231.68
weight (Da)	
multicomponent	no

Record 295

1,3-di(octadec-1-ynyl)benzene (Alkyne-18)



plane group	p1
crystal class	oblique
Z	2
Z'	2
molecular symmetry	C(2v)
site symmetry	1 1
molecular weight	575.01

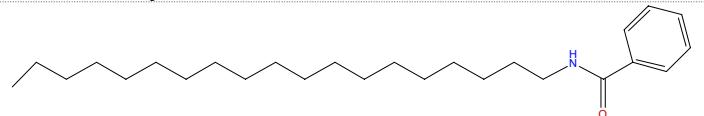
weight (Da)

multicomponent no

Plass, K. E., Kim, K. & Matzger, A. J. J. Am. Chem. Soc. 2004 126, 9042-9053.

Record 296

N-nonadecyl-benzamide NDB

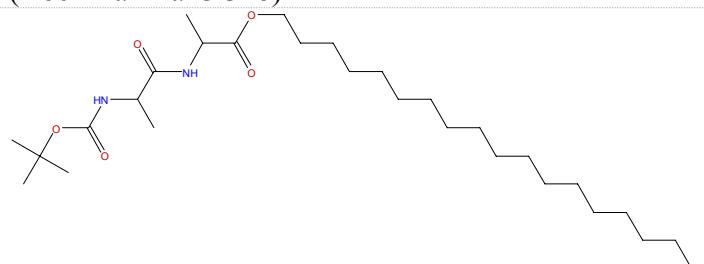


plane group	p1
crystal class	oblique
Z	1
Z'	1
molecular symmetry	C(s)
site symmetry	1
molecular weight	387.64
weight (Da)	
multicomponent	no

Nanjo, H., Qian, P., Yokoyama, T. & Suzuki, T. M. Jpn. J. Appl. Phys., Part 1 2003 42, 6560-6563.

Record 297

octadecyl 2-(2-(tert-butoxycarbonylamino)propanamido)propanoate (Boc-Ala-Ala-OC18)

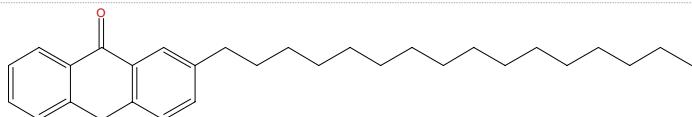


plane group	p1
crystal class	oblique
Z	2
Z'	2
molecular symmetry	C(1)
site symmetry	1 1
molecular weight	512.77
weight (Da)	
multicomponent	no

Hoeppener, S., Chi, L. F., Wonnemann, J., Erker, G. & Fuchs, H. Surf. Sci. 2001 487, 9-14.

Record 298

2-Hexadecylanthrone (1)



plane group *p1*
crystal class oblique

Z 1

Z' 1

molecular symmetry C(s)

site symmetry

1

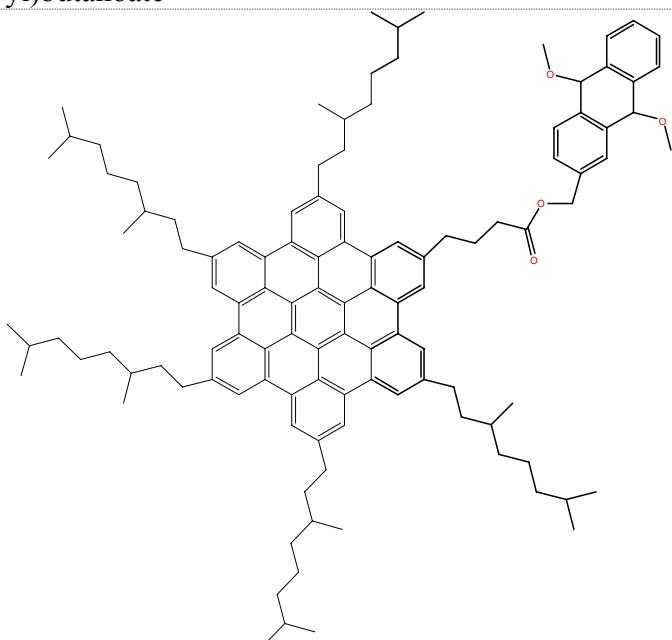
molecular weight (Da) 418.65

multicomponent no

Stabel, A., Heinz, R., Rabe, J. P., Wegner, G., De Schryver, F. C., Corens, D., Dehaen, W. & Süling, C. *J. Phys. Chem.* 1995 99, 8690-8697.

Record 299

(9,10-dimethoxy-9,10-dihydroanthracen-2-yl)methyl 4-(5,8,11,14,17-pentakis(3,7-dimethyloctyl)hexabenzoc[bc,ef,hi,kl,no,qr]coronen-2-yl)butanoate



plane group *p1*
crystal class oblique

Z 1

Z' 1

molecular symmetry C(1)

site symmetry

1

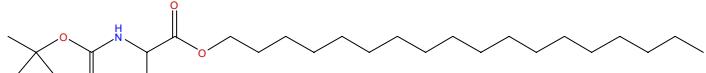
molecular weight (Da) 1562.32

multicomponent no

Samori, P., Yin, X., Tchebotareva, N., Wang, Z., Pakula, T., Jäckel, F., Watson, M. D., Venturini, A., Müllen, K. & Rabe, J. P. *J. Am. Chem. Soc.* 2004 126, 3567-3575.

Record 300

octadecyl 2-(tert-butoxycarbonylamino)propanoate (Boc-Ala-OC18)



plane group *p1*
crystal class oblique

Z 2

Z' 2

molecular symmetry C(1)

site symmetry 1 1

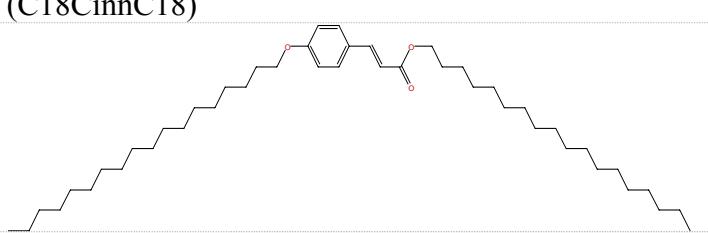
molecular weight (Da) 441.69

multicomponent no

Hoeppener, S., Chi, L. F., Wonnemann, J., Erker, G. & Fuchs, H. *Surf. Sci.* 2001 487, 9-14.

Record 301

(E)-octadecyl 3-(4-(octadecyloxy)phenyl)acrylate (C18CinnC18)



plane group *p1*
crystal class oblique

Z 1

Z' 1

molecular symmetry C(s)

site symmetry 1

molecular weight (Da) 669.11

multicomponent no

Abdel-Mottaleb, M. M. S., De Feyter, S., Gesquière, A., Sieffert, M., Klapper, M., Müllen, K. & De Schryver, F. C. *Nano Lett.* 2001 1, 353-359.

Record 302

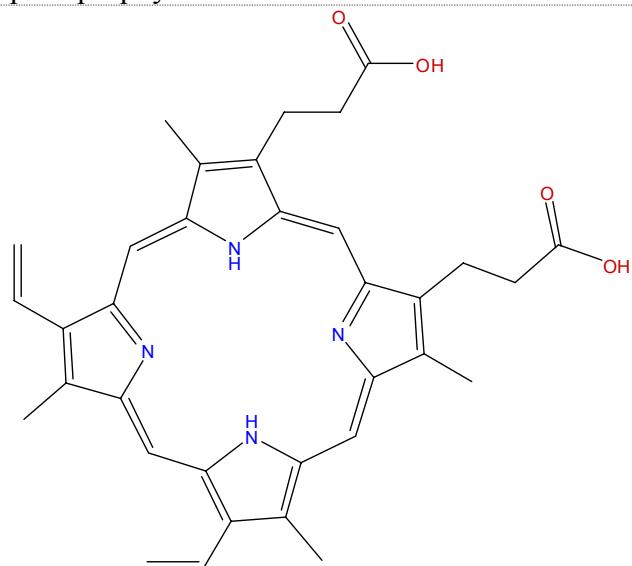
1,10-dihexadecoxy decane C16OC100C16

	plane group	p1
crystal class	oblique	
Z	1	
Z'	1	
molecular symmetry	C(2h)	
site symmetry	1	
molecular weight (Da)	623.13	
multicomponent	no	

Nishino, T., Bühlmann, P., Ito, T. & Umezawa, Y.
Surf. Sci. 2001 490, L579-L584.

Record 303

protoporphyrin

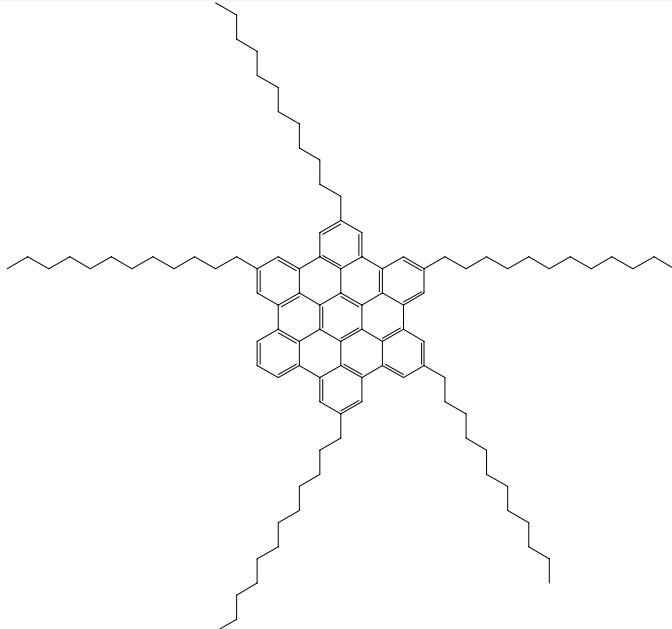


	plane group	p1
crystal class	oblique	
Z	1	
Z'	1	
molecular symmetry	C(s)	
site symmetry	1	
molecular weight (Da)	1364.19	
multicomponent	no	

Ito, S., Wehmeier, M., Brand, J. D., Kübel, C., Epsch, R., Rabe, J. P. & Müllen, K. Chem.-Eur. J. 2000 6, 4327-4342.

Record 304

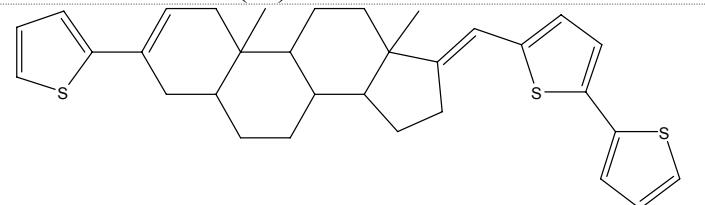
2,5,8,11,14-pentadodecylhexa-peri-hexa-benzocoronene2a (1d)



	plane group	p1
crystal class	oblique	
Z	1	
Z'	1	
molecular symmetry	C(s)	
site symmetry	1	
molecular weight (Da)	562.66	
multicomponent	no	

Tao, N. J., Cardenas, G., Cunha, F. & Shi, Z. Langmuir 1995 11, 4445-4448.

	plane group	p1
crystal class	oblique	
Z	1	
Z'	1	
molecular symmetry	C(s)	
site symmetry	1	
molecular weight (Da)	516.82	
multicomponent	no	



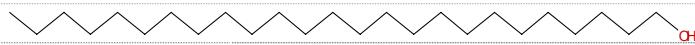
	plane group	p1
crystal class	oblique	
Z	1	
Z'	1	
molecular symmetry	C(1)	
site symmetry	1	
molecular weight (Da)	516.82	
multicomponent	no	

multicomponent no

Vollmer, M. S., Effenberger, F., Stecher, R., Gompf, B. & Eisenmenger, W. Chem.-Eur. J. 1999 5, 96-101.

Record 306

1-tetracosanol



plane group *p*1

crystal class oblique

Z 2

Z' 2

molecular C(s)

symmetry

site symmetry 1 1

molecular 368.68

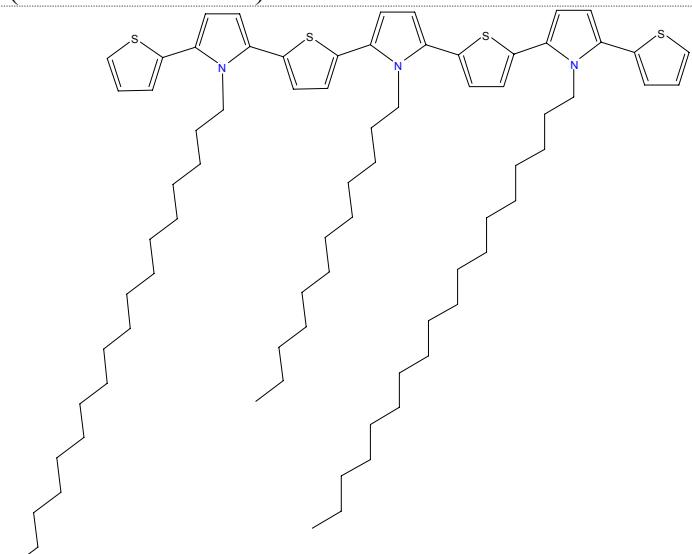
weight (Da)

multicomponent no

Elbel, N., Roth, W., Günther, E. & von Seggern, H. Surf. Sci. 1994 303, 424-432.

Record 307

1-dodecyl-2,5-bis(5-(1-octadecyl-5-(thiophen-2-yl)-1H-pyrrol-2-yl)thiophen-2-yl)-1H-pyrrole
(SN18SN12SN18S)



plane group *p*1

crystal class oblique

Z 1

Z' 1

molecular C(s)

symmetry

site symmetry 1

molecular 1199.01

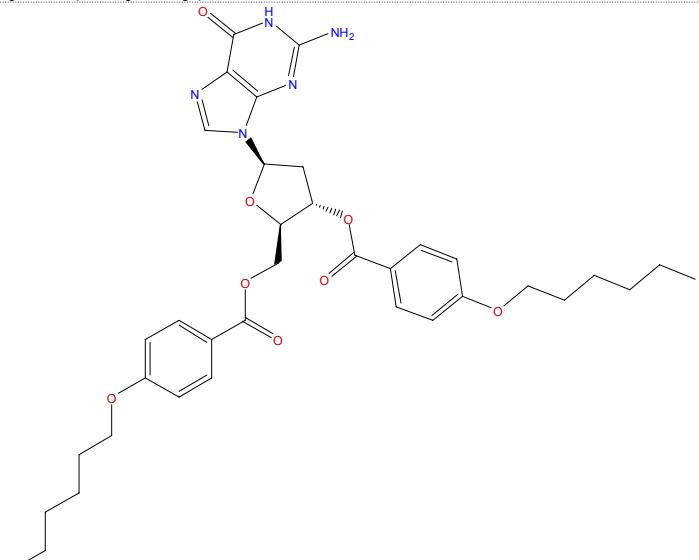
weight (Da)

multicomponent no

Liu, T. L., Parakka, J. P., Cava, M. P. & Kim, Y. T. Langmuir 1995 11, 4205-4208.

Record 308

(2R,3S,5R)-5-(2-amino-6-oxo-1H-purin-9(6H)-yl)-2-((4-hexyloxy)benzoyloxy)methyltetrahydrofuran-3-yl 4-hexyloxybenzoate



plane group *p*1

crystal class oblique

Z 2

Z' 2

molecular C(1)

symmetry

site symmetry 1

molecular 675.77

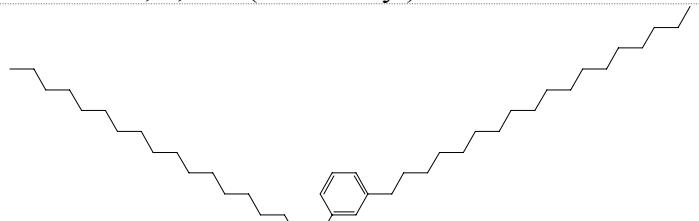
weight (Da)

multicomponent no

Gottarelli, G., Masiero, S., Mezzina, E., Pieraccini, S., Rabe, J. P., Samorí, P. & Spada, G. P. Chem.-Eur. J. 2000 6, 3242-3248.

Record 309

Alkane-16; 1,3-di-(1-octadecyl) benzene



plane group *p*1

crystal class oblique

Z 1

Z' 1

molecular C(2v)

symmetry

site symmetry 1

molecular weight (Da) 583.07

multicomponent no

Plass, K. E., Kim, K. & Matzger, A. J. J. Am. Chem. Soc. 2004 126, 9042-9053.

Record 310

17-pentatriacontene



plane group p1

crystal class oblique

Z 1

Z' 1

molecular symmetry

site symmetry 1

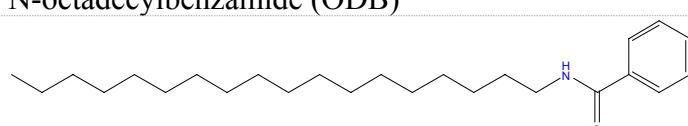
molecular weight (Da) 490.93

multicomponent no

Claypool, C. L., Faglioni, F., Goddard, W. A., Gray, H. B., Lewis, N. S. & Marcus, R. A. J. Phys. Chem. B 1997 101, 5978-5995.

Record 311

N-octadecylbenzamide (ODB)



plane group p1

crystal class oblique

Z 1

Z' 1

molecular symmetry

site symmetry 1

molecular weight (Da) 373.62

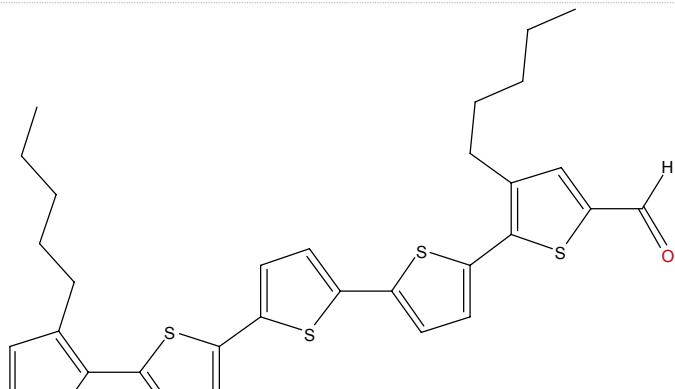
weight (Da)

multicomponent no

Qian, P., Nanjo, H., Yokoyama, T. & Suzuki, T. M. Chem. Lett. 1999 1229-1230.

Record 312

5-formyl-3,3'''-dipentyl-2,2':5',2":5",2'''-5'''-quinquethiophene (5a)



plane group p1

crystal class oblique

Z 1

Z' 1

molecular symmetry

site symmetry 1

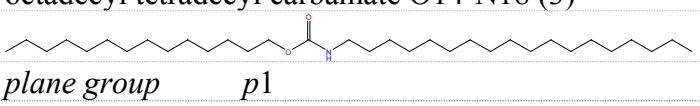
molecular weight (Da) 580.91

multicomponent no

Müller, H., Petersen, J., Strohmaier, R., Gompf, B., Eisenmenger, W., Vollmer, M. S. & Effenberger, F. Adv. Mater. 1996 8, 733-737.

Record 313

octadecyl tetradecyl carbamate O14-N18 (3)



plane group p1

crystal class oblique

Z 1

Z' 1

molecular symmetry

site symmetry 1

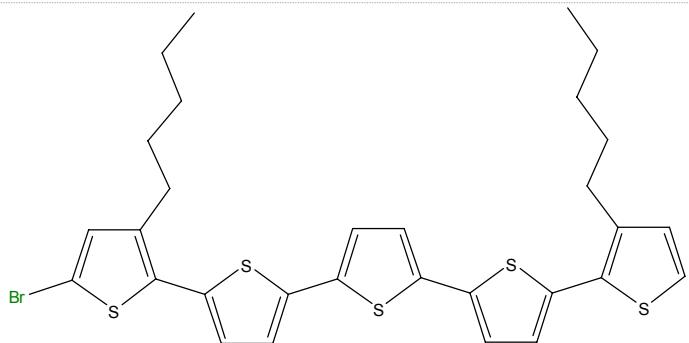
molecular weight (Da) 509.89

multicomponent no

Matzger, A. J. & Kim, K. Polym. Mater. Sci. Eng. 2003 89, 825-826.

Record 314

5-bromo-3,3-dipentyl-2,2':5',2":5",2'''-5'''-2-quinquethiophene (5a)

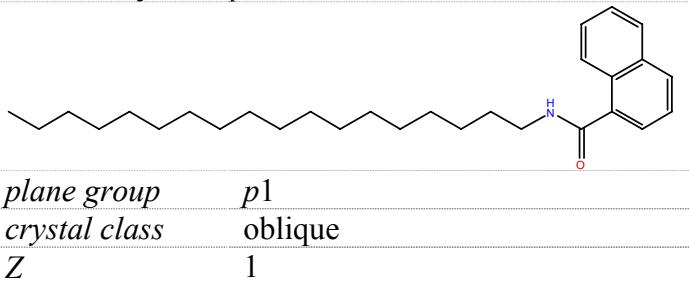


<i>plane group</i>	<i>p1</i>
<i>crystal class</i>	oblique
<i>Z</i>	2
<i>Z'</i>	2
<i>molecular symmetry</i>	C(s)
<i>site symmetry</i>	1 1
<i>molecular weight (Da)</i>	631.80
<i>multicomponent</i>	no

Stecher, R., Gompf, B., Münter, J. S. R. & Effenberger, F. *Adv. Mater.* 1999 11, 927-931.

Record 315

N-octadecyl-1-naphthamide OD1N

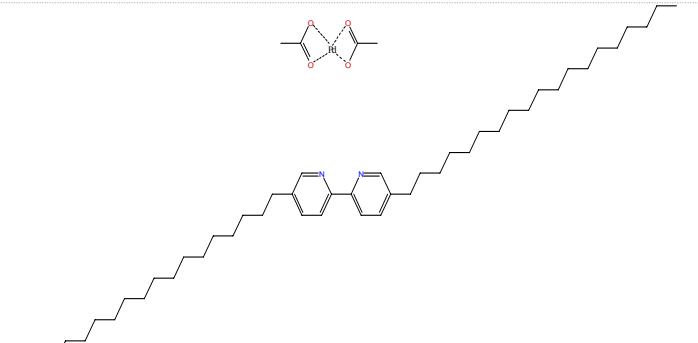


<i>plane group</i>	<i>p1</i>
<i>crystal class</i>	oblique
<i>Z</i>	1
<i>Z'</i>	1
<i>molecular symmetry</i>	C(s)
<i>site symmetry</i>	1
<i>molecular weight (Da)</i>	423.67
<i>multicomponent</i>	no

Nanjo, H., Qian, P., Yokoyama, T. & Suzuki, T. M. *Jpn. J. Appl. Phys., Part 1* 2003 42, 6560-6563.

Record 316

5,5'-dinonadecyl-2,2'-bipyridine complexation with Pd(OAc)₂

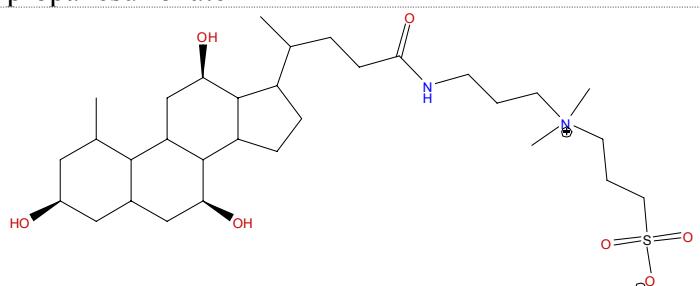


<i>plane group</i>	<i>p1</i>
<i>crystal class</i>	oblique
<i>Z</i>	1
<i>Z'</i>	1
<i>molecular symmetry</i>	C(2v)
<i>site symmetry</i>	1
<i>molecular weight (Da)</i>	913.70
<i>multicomponent</i>	yes

Abdel-Mottaleb, M. M. S., Schuurmans, N., De Feyter, S., Van Esch, J., Feringa, B. L. & De Schryver, F. C. *Chem. Commun.* 2002 1894-1895.

Record 317

3-[(3-cholamidopropyl)dimethylammonio]-1-propanesulfonate

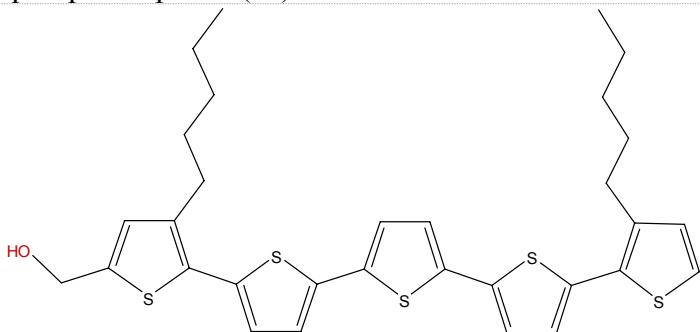


<i>plane group</i>	<i>p1</i>
<i>crystal class</i>	oblique
<i>Z</i>	1
<i>Z'</i>	1
<i>molecular symmetry</i>	C(1)
<i>site symmetry</i>	1
<i>molecular weight (Da)</i>	600.85
<i>multicomponent</i>	no

Wu, X.-L. & Lieber, C. M. *J. Phys. Chem.* 1988 92, 5556-5557.

Record 318

5-Hydroxymethyl-3,3-dipentyl-2,2':5',2:5,2":5",2-quinquethiophene (3a)

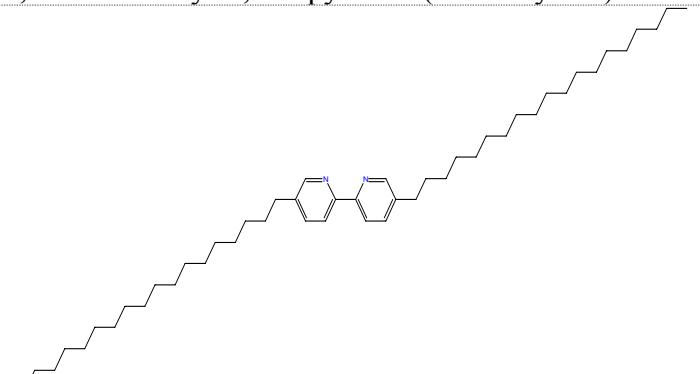


plane group	<i>p1</i>
crystal class	oblique
<i>Z</i>	2
<i>Z'</i>	2
molecular symmetry	C(s)
site symmetry	1 1
molecular weight (Da)	582.93
multicomponent	no

Stecher, R., Gompf, B., Münter, J. S. R. & Effenberger, F. Adv. Mater. 1999 11, 927-931.

Record 319

5,5'-dinonadecyl-2,2'-bipyridine (C19BiPyC19)

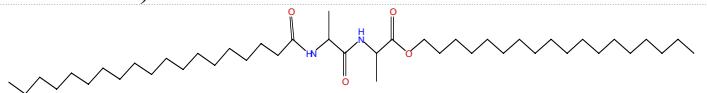


plane group	<i>p1</i>
crystal class	oblique
<i>Z</i>	1
<i>Z'</i>	1
molecular symmetry	C(2v)
site symmetry	1
molecular weight (Da)	689.19
multicomponent	no

Abdel-Mottaleb, M. M. S., Schuurmans, N., De Feyter, S., Van Esch, J., Feringa, B. L. & De Schryver, F. C. Chem. Commun. 2002 1894-1895.

Record 320

octadecyl 2-(2-nonadecanamidopropanamido)propanoate (C18-Ala-Ala-OC18)

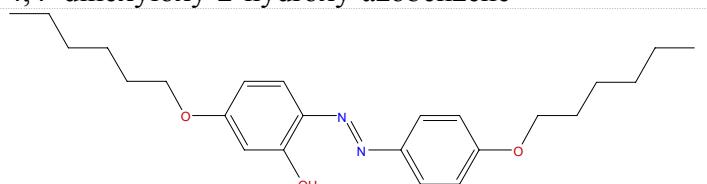


plane group	<i>p1</i>
crystal class	oblique
<i>Z</i>	1
<i>Z'</i>	1
molecular symmetry	C(1)
site symmetry	1
molecular weight (Da)	693.14
multicomponent	no

Hoeppener, S., Chi, L. F., Wonnemann, J., Erker, G. & Fuchs, H. Surf. Sci. 2001 487, 9-14.

Record 321

4,4'-dihexyloxy-2-hydroxy-azobenzene

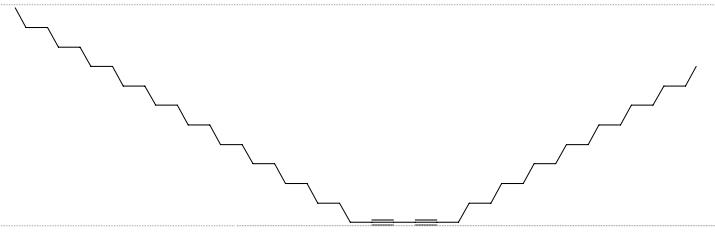


plane group	<i>p1</i>
crystal class	oblique
<i>Z</i>	1
<i>Z'</i>	1
molecular symmetry	C(s)
site symmetry	1
molecular weight (Da)	398.54
multicomponent	no

Jin, J., Li, Y., Zhang, Y., Yang, W., Chen, X., Song, Y., Zhao, Y., Bai, Y., Li, T. & Jiang, L. Colloids Surf., A 2002 198-200, 249-253.

Record 322

17,19-dotetracontadiyne



<i>plane group</i>	<i>p1</i>
<i>crystal class</i>	oblique
<i>Z</i>	1
<i>Z'</i>	1
<i>molecular symmetry</i>	C(s)
<i>site symmetry</i>	1
<i>molecular weight (Da)</i>	583.07
<i>multicomponent</i>	no

Takajo, D., Fujiwara, E., Irie, S., Nemoto, T., Isoda, S., Ozaki, H., Toda, N., Tomii, S., Magara, T., Mazaki, Y. & Yamamoto, G. J. Cryst. Growth 2002 237-239, 2071-2075.

Record 323

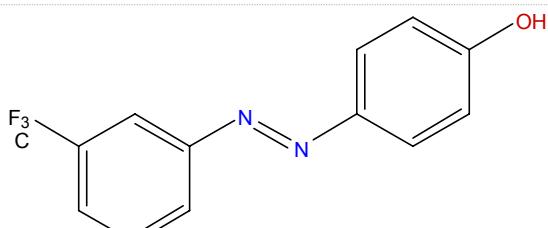
1-triacontanol

<i>plane group</i>	<i>p1</i>
<i>crystal class</i>	oblique
<i>Z</i>	2
<i>Z'</i>	2
<i>molecular symmetry</i>	C(s)
<i>site symmetry</i>	1 1
<i>molecular weight (Da)</i>	438.81
<i>multicomponent</i>	no

Venkataraman, B. & Flynn, G. W. Atomic Force Microscopy/Scanning Tunneling Microscopy 2, [Proceedings of the U.S. Army Soldier Systems Command, Natick Research, Development and Engineering Center Atomic Force Microscopy/Scanning Tunneling Microscopy (AFM/STM) Symposium], 2nd, Natick, Mass., June 7-9, 1994 1997 83-90.

Record 324

trans-4-hydroxy-30-trifluoromethylazobenzene

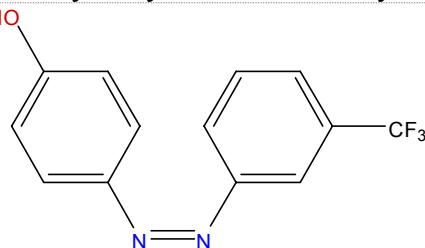


<i>plane group</i>	<i>p1</i>
<i>crystal class</i>	oblique
<i>Z</i>	2
<i>Z'</i>	2
<i>molecular symmetry</i>	C(s)
<i>site symmetry</i>	1 1
<i>molecular weight (Da)</i>	266.22
<i>multicomponent</i>	no

Feng, C. L.; Zhang, Y.; Jin, J.; Song, Y.; Xie, L.; Qu, G.; Jiang, L.; Zhu, D. Surf. Sci. 2002, 513, 111-118.

Record 325

cis-4-hydroxy-30-trifluoromethylazobenzene

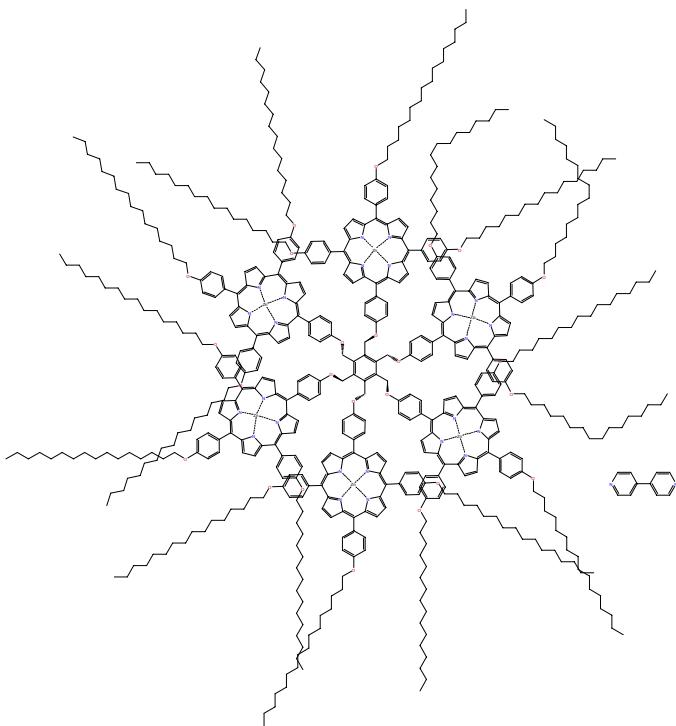


<i>plane group</i>	<i>p1</i>
<i>crystal class</i>	oblique
<i>Z</i>	2
<i>Z'</i>	2
<i>molecular symmetry</i>	C(s)
<i>site symmetry</i>	1 1
<i>molecular weight (Da)</i>	266.22
<i>multicomponent</i>	no

Feng, C. L.; Zhang, Y.; Jin, J.; Song, Y.; Xie, L.; Qu, G.; Jiang, L.; Zhu, D. Surf. Sci. 2002, 513, 111-118.

Record 326

hexakis(zinc (II) porphyrinato)benzene (Zn1) and bipyridine

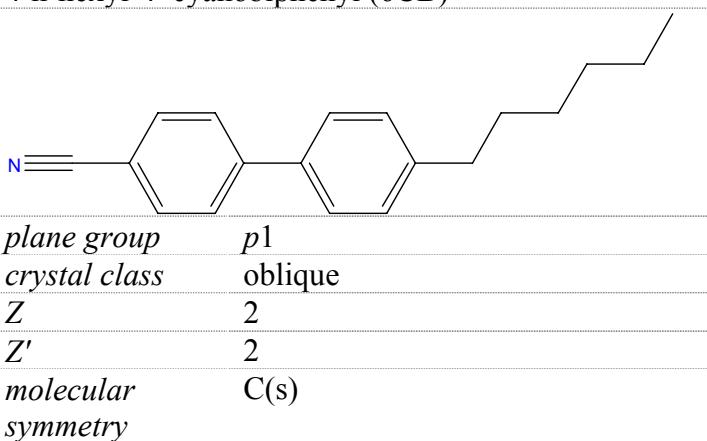


<i>plane group</i>	<i>p1</i>
<i>crystal class</i>	oblique
<i>Z</i>	1
<i>Z'</i>	1
<i>molecular symmetry</i>	<i>C(3), D(2h)</i>
<i>site symmetry</i>	<i>1 1</i>
<i>molecular weight (Da)</i>	8498.63
<i>multicomponent</i>	yes

Elemans, J. A. A. W., Lensen, M. C., Gerritsen, J. W., van Kempen, H., Speller, S., nolte, R. J. M. & Rowan, A. E. *Adv. Mater.* 2003 15, 2070-2073.

Record 327

4-n-hexyl-4'-cyanobiphenyl (6CB)



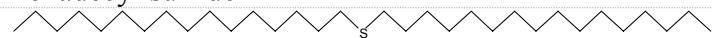
<i>plane group</i>	<i>p1</i>
<i>crystal class</i>	oblique
<i>Z</i>	2
<i>Z'</i>	2
<i>molecular symmetry</i>	<i>C(s)</i>

<i>site symmetry</i>	<i>1 1</i>
<i>molecular weight (Da)</i>	263.38
<i>multicomponent</i>	no

Brandow, S. L., DiLella, D. P., Colton, R. J. & Shashidhar, R. *J. Vac. Sci. Technol., B* 1991 9, 1115-1118.

Record 328

hexadecyl sulfide

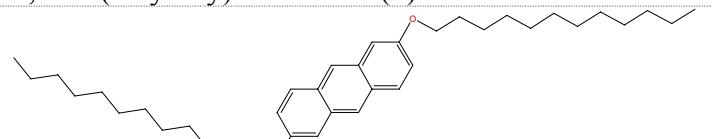


<i>plane group</i>	<i>p1</i>
<i>crystal class</i>	oblique
<i>Z</i>	1
<i>Z'</i>	1
<i>molecular symmetry</i>	<i>C(2v)</i>
<i>site symmetry</i>	1
<i>molecular weight (Da)</i>	482.93
<i>multicomponent</i>	no

Padowitz, D. F. & Messmore, B. W. *J. Phys. Chem. B* 2000 104, 9943-9946.

Record 329

2,6-bis(octyloxy)anthracene (3)

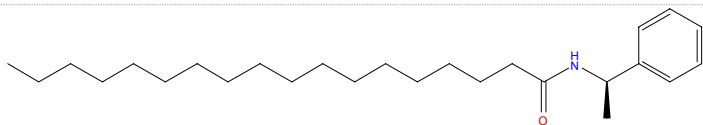


<i>plane group</i>	<i>p1</i>
<i>crystal class</i>	oblique
<i>Z</i>	3
<i>Z'</i>	3
<i>molecular symmetry</i>	<i>C(2v)</i>
<i>site symmetry</i>	<i>1 1 1</i>
<i>molecular weight (Da)</i>	546.87
<i>multicomponent</i>	no

Hansen, T., Itoua, S., Kamounah, F. S., Christensen, J. B., Bjørnholm, T., Schaumburg, K., Bechgaard, K. & Wilkes, S. B. *J. Mater. Chem.* 1999 9, 1107-1113.

Record 330

Octadecanoic acid (S)-1-phenylethylamide



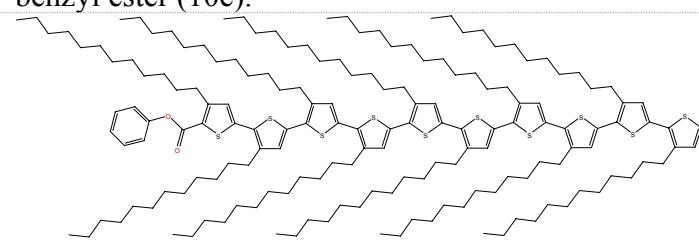
<i>Z</i>	1
<i>Z'</i>	1
<i>molecular symmetry</i>	C(s)

<i>plane group</i>	<i>p1</i>
<i>crystal class</i>	oblique
<i>Z</i>	1
<i>Z'</i>	1
<i>molecular symmetry</i>	C(1)
<i>site symmetry</i>	1
<i>molecular weight (Da)</i>	387.64

Nanjo, H., Qian, P., Yokoyama, T. & Suzuki, T. M. Jpn. J. Appl. Phys., Part 1 2003 42, 6560-6563.

Record 333

didodecyldecithiophene-5-carboxylic acid benzyl ester (10e).



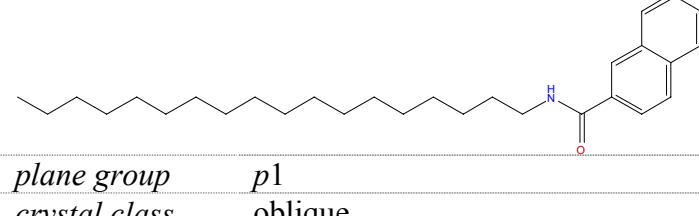
<i>site symmetry</i>	1
<i>molecular weight (Da)</i>	423.67
<i>multicomponent</i>	no
<i>reference</i>	Nanjo, H., Qian, P., Yokoyama, T. & Suzuki, T. M. Jpn. J. Appl. Phys., Part 1 2003 42, 6560-6563.
Record 333	
<i>name</i>	dihexadecylether

<i>plane group</i>	<i>p1</i>
<i>crystal class</i>	oblique
<i>Z</i>	1
<i>Z'</i>	1
<i>molecular symmetry</i>	C(s)
<i>site symmetry</i>	1
<i>molecular weight (Da)</i>	2626.55

Kirschbaum, T., Azumi, R., Mena-Osteritz, E. & Bäuerle, P. New J. Chem. 1999 23, 241-250.

Record 332

N-octadecyl-2-naphthamide OD2N

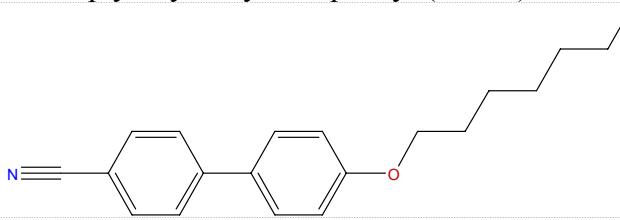


<i>plane group</i>	<i>p1</i>
<i>crystal class</i>	oblique
<i>Z</i>	1
<i>Z'</i>	1
<i>molecular symmetry</i>	C(2v)
<i>site symmetry</i>	1
<i>molecular weight (Da)</i>	466.87

Padowitz, D. F. & Messmore, B. W. J. Phys. Chem. B 2000 104, 9943-9946.

Record 334

4-n-heptyloxy-4'-cyanobiphenyl (7OCB)

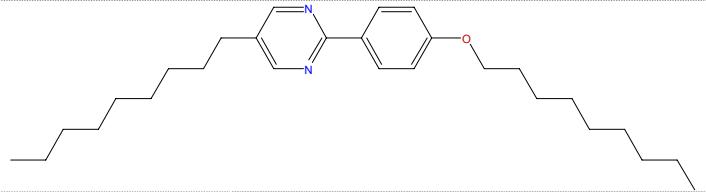


<i>plane group</i>	<i>p1</i>
<i>crystal class</i>	oblique
<i>Z</i>	1
<i>Z'</i>	1
<i>molecular symmetry</i>	C(s)
<i>site symmetry</i>	1
<i>molecular weight (Da)</i>	293.40

Taki, S. & Kai, S. Jpn. J. Appl. Phys., Part 1 2001 40, 4187-4192.

Record 335

5-nonyl-2-n-nonoxylophenylpyrimidine (PYP 909)



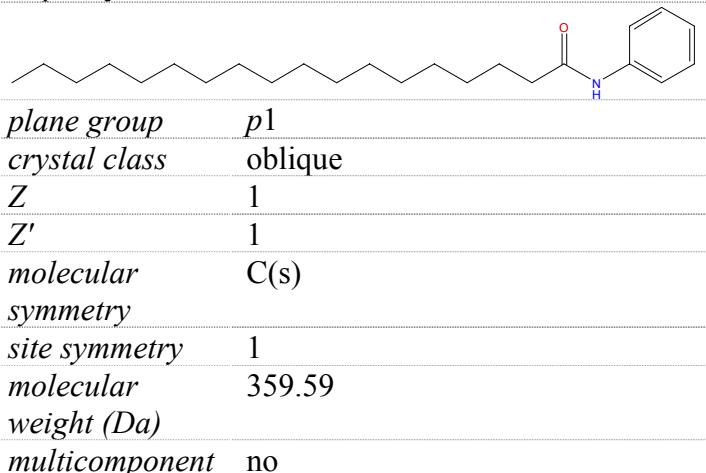
plane group	p1
crystal class	oblique
Z	1
Z'	1
molecular symmetry	C(s)

site symmetry	1
molecular weight (Da)	424.66
multicomponent	no

Spong, J. K., Mizes, H. A., Lacomb, L. J., Dovek, M. M., Frommer, J. E. & Foster, J. S. Nature 1989 338, 137-139.

Record 336

N-phenylstearamide



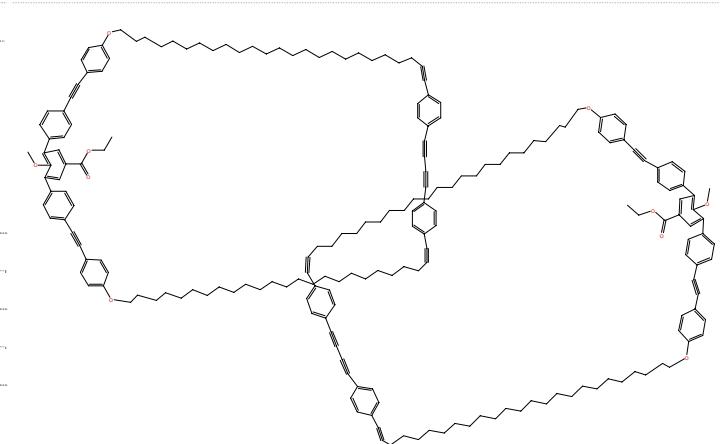
plane group	p1
crystal class	oblique
Z	1
Z'	1
molecular symmetry	C(s)

site symmetry	1
molecular weight (Da)	359.59
multicomponent	no

Nanjo, H., Qian, P., Yokoyama, T. & Suzuki, T. M. Jpn. J. Appl. Phys., Part 1 2003 42, 6560-6563.

Record 337

[2]catenane



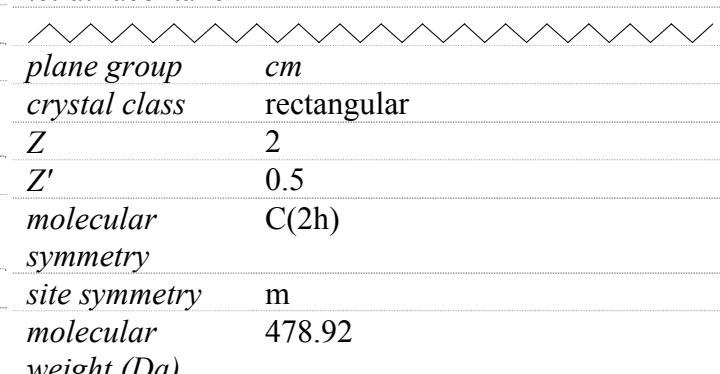
site symmetry	1
molecular weight (Da)	424.66
multicomponent	no

plane group	p1
crystal class	oblique
Z	1
Z'	1
molecular symmetry	C(2)
site symmetry	1
molecular weight (Da)	2912.22
multicomponent	no

Samorí, P., Jäckel, F., Ünsal, Ö., Godt, A. & Rabe, J. P. ChemPhysChem 2001 2, 461-464.

Record 338

tetratriacontane

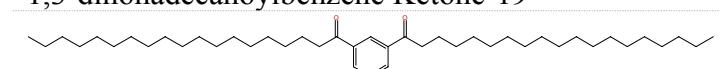


plane group	cm
crystal class	rectangular
Z	2
Z'	0.5
molecular symmetry	C(2h)
site symmetry	m
molecular weight (Da)	478.92
multicomponent	no

Rabe, J. P. & Buchholz, S. Makromol. Chem., Macromol. Symp. 1991 50, 261-268.

Record 339

1,3-dinonadecanoylbenzene Ketone-19



plane group	cm
crystal class	rectangular
Z	6
Z'	1.5

molecular symmetry	C(2v)
site symmetry	m g
molecular weight (Da)	639.09
multicomponent	no
Kim, K. & Matzger, A. J. J. Am. Chem. Soc. 2002 124, 8772-8773.	

Record 340

heptacosane

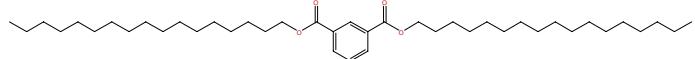


plane group	cm
crystal class	rectangular
Z	2
Z'	0.5
molecular symmetry	C(2v)
site symmetry	m
molecular weight (Da)	380.73
multicomponent	no

Rabe, J. P., Buchholz, S. & Askadskaya, L. Phys. Scr. 1993 T49A, 260-263.

Record 341

Ester-19; 1,3-di-(1-heptadecyl) isophthalate



plane group	cm
crystal class	rectangular
Z	2
Z'	0.5
molecular symmetry	C(2v)
site symmetry	m
molecular weight (Da)	643.03
multicomponent	no

Plass, K. E., Kim, K. & Matzger, A. J. J. Am. Chem. Soc. 2004 126, 9042-9053.

Record 342

hexatriacontane



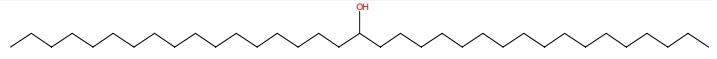
plane group	cm
crystal class	rectangular
Z	2
Z'	0.5

molecular symmetry	C(2h)
site symmetry	m
molecular weight (Da)	506.97
multicomponent	no

Liang, W., Whangbo, M.-H., Wawkuschewski, A., Cantow, H.-J. & Magonov, S. N. Adv. Mater. 1993 5, 817-821.

Record 343

18-hydroxy-pentatriacontane

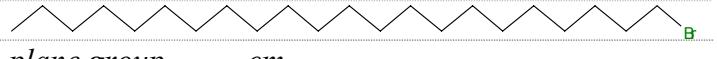


plane group	cm
crystal class	rectangular
Z	2
Z'	0.5
molecular symmetry	C(s)
site symmetry	m
molecular weight (Da)	508.95
multicomponent	no

Claypool, C. L., Faglioni, F., Matzger, A. J., Goddard, W. A. & Lewis, N. S. J. Phys. Chem. B 1999 103, 9690-9699.

Record 344

1-bromodocosane

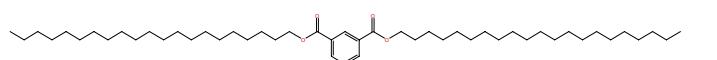


plane group	cm
crystal class	oblique
Z	4
Z'	1
molecular symmetry	C(s)
site symmetry	1
molecular weight (Da)	389.50
multicomponent	no

Cyr, D. M., Venkataraman, B., Flynn, G. W., Black, A. & Whitesides, G. M. J. Phys. Chem. 1996 100, 13747-13759.

Record 345

Ester-23; 1,3-di-(1-heneicosyl) isophthalate

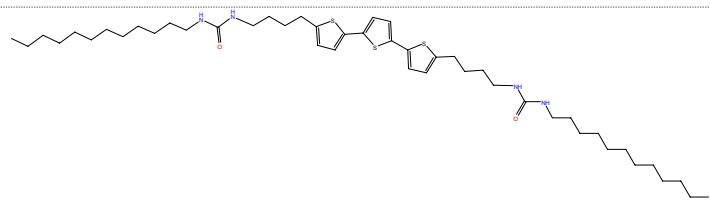


plane group	cm
crystal class	rectangular
Z	2
Z'	0.5

<i>crystal class</i>	rectangular	<i>Z'</i>	0.5
<i>Z</i>	2	<i>molecular symmetry</i>	C(2v)
<i>Z'</i>	0.5	<i>site symmetry</i>	<i>m</i>
<i>molecular symmetry</i>	C(2v)	<i>molecular weight (Da)</i>	649.07
<i>site symmetry</i>	<i>m</i>	<i>multicomponent</i>	no
<i>molecular weight (Da)</i>	755.25	Gesqui�re, A., Abdel-Mottaleb, M. M. S., De Feyter, S., De Schryver, F. C., Schoonbeek, F., van Esch, J., Kellogg, R. M., Feringa, B. L., Calderone, A., Lazzaroni, R. & Br�das, J. L. Langmuir 2000 16, 10385-10391.	
<i>multicomponent</i>	no	Plass, K. E., Kim, K. & Matzger, A. J. J. Am. Chem. Soc. 2004 126, 9042-9053.	

Record 346

T3

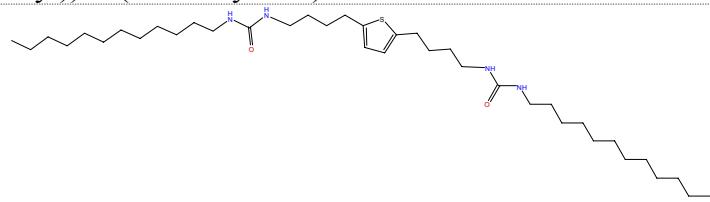


<i>plane group</i>	<i>cm</i>	<i>pentacontane</i>
<i>crystal class</i>	rectangular	
<i>Z</i>	2	
<i>Z'</i>	0.5	
<i>molecular symmetry</i>	C(2v)	
<i>site symmetry</i>	<i>m</i>	
<i>molecular weight (Da)</i>	813.32	
<i>multicomponent</i>	no	

Gesqui re, A., Abdel-Mottaleb, M. M. S., De Feyter, S., De Schryver, F. C., Schoonbeek, F., van Esch, J., Kellogg, R. M., Feringa, B. L., Calderone, A., Lazzaroni, R. & Br das, J. L. Langmuir 2000 16, 10385-10391.

Record 347

1,1'-(4,4'-(thiophene-2,5-diyl)bis(butane-4,1-diyl))bis(3-dodecylurea)



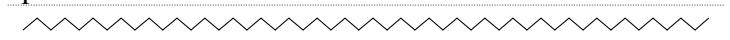
<i>plane group</i>	<i>cm</i>	<i>octadecyl sulfide</i>
<i>crystal class</i>	rectangular	
<i>Z</i>	2	
<i>Z'</i>	0.5	
<i>molecular symmetry</i>	C(2v)	
<i>site symmetry</i>	<i>m</i>	
<i>molecular weight (Da)</i>	539.04	
<i>multicomponent</i>	no	

<i>molecular weight (Da)</i>	703.34
<i>multicomponent</i>	no
Rabe, J. P. & Buchholz, S. Makromol. Chem., Macromol. Symp. 1991 50, 261-268.	
<i>plane group</i>	<i>cm</i>
<i>crystal class</i>	rectangular

Gesqui re, A., Abdel-Mottaleb, M. M. S., De Feyter, S., De Schryver, F. C., Schoonbeek, F., van Esch, J., Kellogg, R. M., Feringa, B. L., Calderone, A., Lazzaroni, R. & Br das, J. L. Langmuir 2000 16, 10385-10391.

Record 348

pentacontane

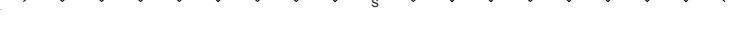


<i>plane group</i>	<i>cm</i>
<i>crystal class</i>	rectangular
<i>Z</i>	2
<i>Z'</i>	0.5
<i>molecular symmetry</i>	C(2h)
<i>site symmetry</i>	<i>m</i>
<i>molecular weight (Da)</i>	703.34
<i>multicomponent</i>	no

Rabe, J. P. & Buchholz, S. Makromol. Chem., Macromol. Symp. 1991 50, 261-268.

Record 349

octadecyl sulfide



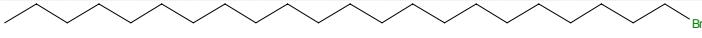
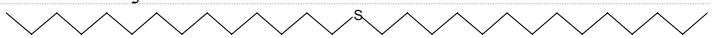
<i>plane group</i>	<i>cm</i>
<i>crystal class</i>	rectangular
<i>Z</i>	2
<i>Z'</i>	0.5
<i>molecular symmetry</i>	C(2v)
<i>site symmetry</i>	<i>m</i>
<i>molecular weight (Da)</i>	539.04
<i>multicomponent</i>	no

Giancarlo, L. C., Fang, H. B., Rubin, S. M., Bront, A. A. & Flynn, G. W. J. Phys. Chem. B 1998 102, 10255-10263.

Record 350

1-bromodocosane

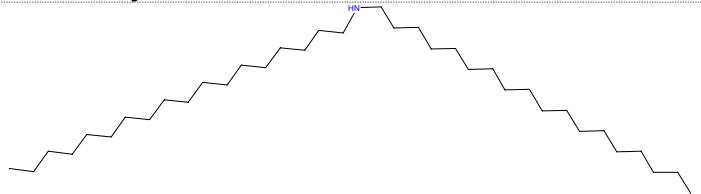


		<i>Z'</i>	0.5
<i>plane group</i>	<i>cm</i>	<i>molecular symmetry</i>	C(2v)
<i>crystal class</i>	rectangular	<i>site symmetry</i>	<i>m</i>
<i>Z</i>	4	<i>molecular weight (Da)</i>	282.94
<i>Z'</i>	1	<i>multicomponent</i>	no
<i>molecular symmetry</i>	C(s)	Isoda, S., Nemoto, T., Fujiwara, E., Adachi, Y. & Kobayashi, T. J. Cryst. Growth 2001 229, 574-579.	
<i>site symmetry</i>	1	Record 353	
<i>molecular weight (Da)</i>	389.50	ditetradecylsulfane	
<i>multicomponent</i>	no		

Cyr, D. M., Venkataraman, B., Flynn, G. W., Black, A. & Whitesides, G. M. J. Phys. Chem. 1996 100, 13747-13759.

Record 351

dioctadecylamine

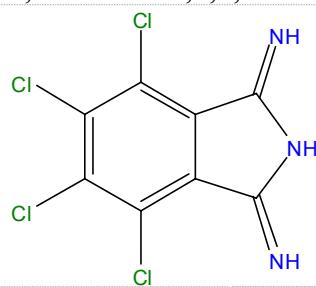


<i>plane group</i>	<i>cm</i>	<i>molecular symmetry</i>	
<i>crystal class</i>	rectangular	<i>site symmetry</i>	
<i>Z</i>	2	<i>molecular weight (Da)</i>	426.83
<i>Z'</i>	0.5	<i>multicomponent</i>	no
<i>molecular symmetry</i>	C(s)	Claypool, C. L., Faglioni, F., Goddard, W. A., Gray, H. B., Lewis, N. S. & Marcus, R. A. J. Phys. Chem. B 1997 101, 5978-5995.	
<i>site symmetry</i>	<i>m</i>	Record 354	
<i>molecular weight (Da)</i>	521.99	pentatriacontane	
<i>multicomponent</i>	no		

Claypool, C. L., Faglioni, F., Goddard, W. A., Gray, H. B., Lewis, N. S. & Marcus, R. A. J. Phys. Chem. B 1997 101, 5978-5995.

Record 352

1,3-diimino-4,5,6,7-tetrachloroisoindoline (DITCI)



<i>plane group</i>	<i>cm</i>	<i>molecular symmetry</i>	
<i>crystal class</i>	oblique	<i>site symmetry</i>	
<i>Z</i>	2	<i>molecular weight (Da)</i>	492.95

Claypool, C. L., Faglioni, F., Goddard, W. A., Gray, H. B., Lewis, N. S. & Marcus, R. A. J. Phys. Chem. B 1997 101, 5978-5995.

<i>Z'</i>	0.5
<i>molecular symmetry</i>	C(2v)
<i>site symmetry</i>	<i>m</i>
<i>molecular weight (Da)</i>	282.94
<i>multicomponent</i>	no

Isoda, S., Nemoto, T., Fujiwara, E., Adachi, Y. & Kobayashi, T. J. Cryst. Growth 2001 229, 574-579.

Record 353

ditetradecylsulfane

<i>plane group</i>	<i>cm</i>	<i>molecular symmetry</i>	
<i>crystal class</i>	rectangular	<i>site symmetry</i>	
<i>Z</i>	2	<i>molecular weight (Da)</i>	426.83
<i>Z'</i>	0.5	<i>multicomponent</i>	no
<i>molecular symmetry</i>	C(2v)	Claypool, C. L., Faglioni, F., Goddard, W. A., Gray, H. B., Lewis, N. S. & Marcus, R. A. J. Phys. Chem. B 1997 101, 5978-5995.	
<i>site symmetry</i>	<i>m</i>	Record 354	
<i>molecular weight (Da)</i>	521.99	pentatriacontane	
<i>multicomponent</i>	no		

<i>plane group</i>	<i>cm</i>	<i>molecular symmetry</i>	
<i>crystal class</i>	rectangular	<i>site symmetry</i>	
<i>Z</i>	2	<i>molecular weight (Da)</i>	492.95
<i>Z'</i>	0.5	<i>multicomponent</i>	no
<i>molecular symmetry</i>	C(2v)	Claypool, C. L., Faglioni, F., Goddard, W. A., Gray, H. B., Lewis, N. S. & Marcus, R. A. J. Phys. Chem. B 1997 101, 5978-5995.	
<i>site symmetry</i>	<i>m</i>	Record 355	
<i>molecular weight (Da)</i>	521.99	triacosane	
<i>multicomponent</i>	no		

<i>plane group</i>	<i>cm</i>	<i>molecular symmetry</i>	
<i>crystal class</i>	rectangular	<i>site symmetry</i>	

Z 2
 Z' 0.5
 molecular C(2v)

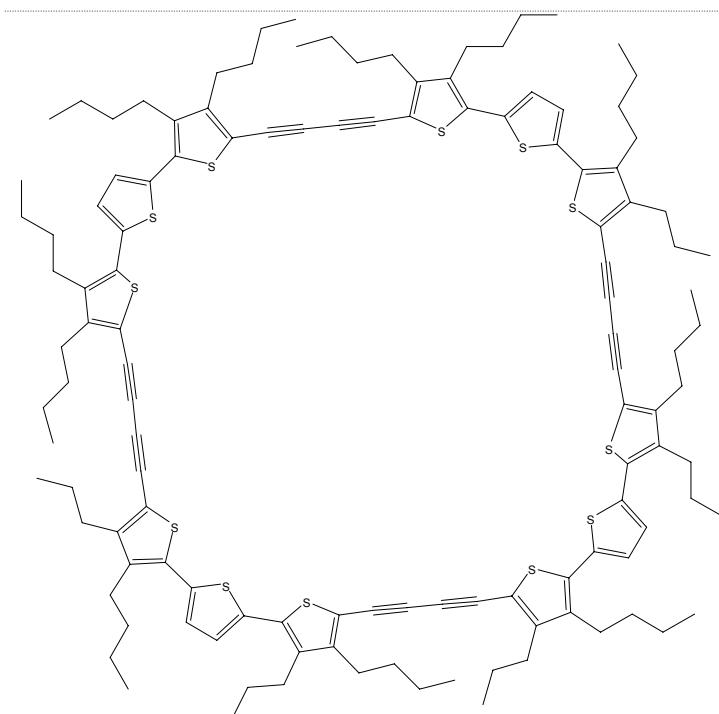
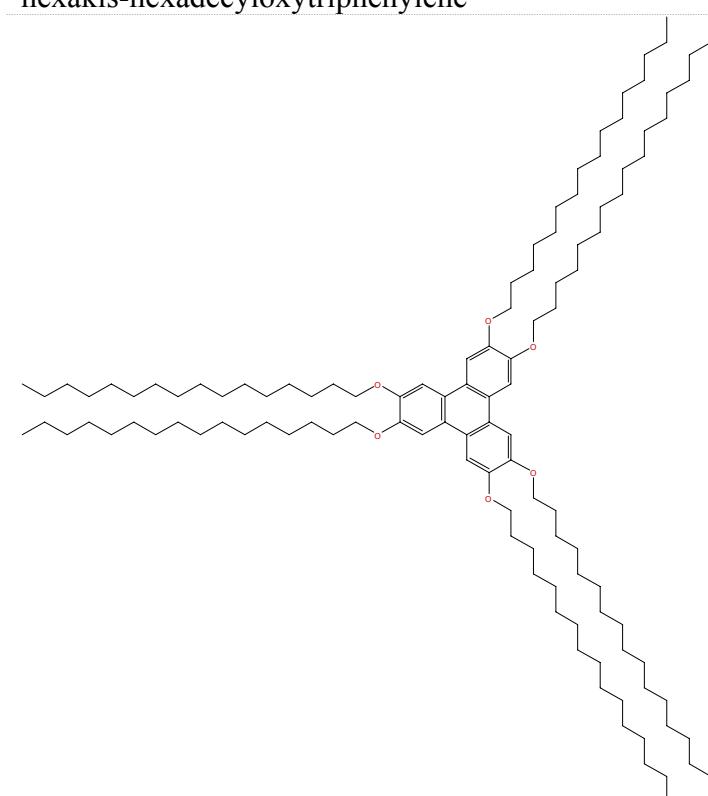
symmetry
 site symmetry m
 molecular 324.63
 weight (Da)

multicomponent no

Couto, M. S., Liu, X. Y., Meekes, H. & Bennema, P. J. Appl. Phys. 1994 75, 627-628.

Record 356

hexakis-hexadecyloxytriphenylene



plane group cm
 crystal class rectangular
 Z 2
 Z' 0.5

molecular D(3h)

symmetry

site symmetry m

molecular 1670.84

weight (Da)

multicomponent no

Rabe, J. P., Buchholz, S. & Askadskaya, L. Synth. Met. 1993 54, 339-349.

Record 357

plane group c2mm
 crystal class rectangular
 Z 2
 Z' 0.25
 molecular D(4h)
 symmetry

site symmetry 2mm

molecular 2033.28

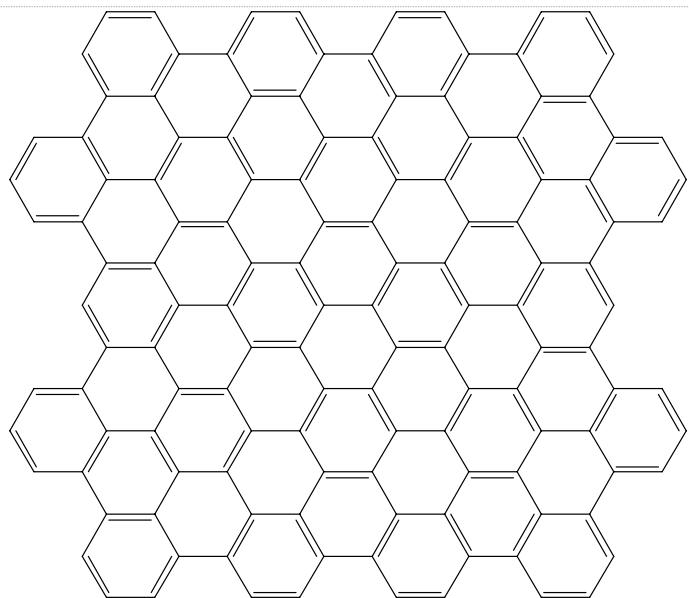
weight (Da)

multicomponent no

Mena-Osteritz, E. & Bäuerle, P. Adv. Mater. 2001 13, 243-246.

Record 358

c132h34

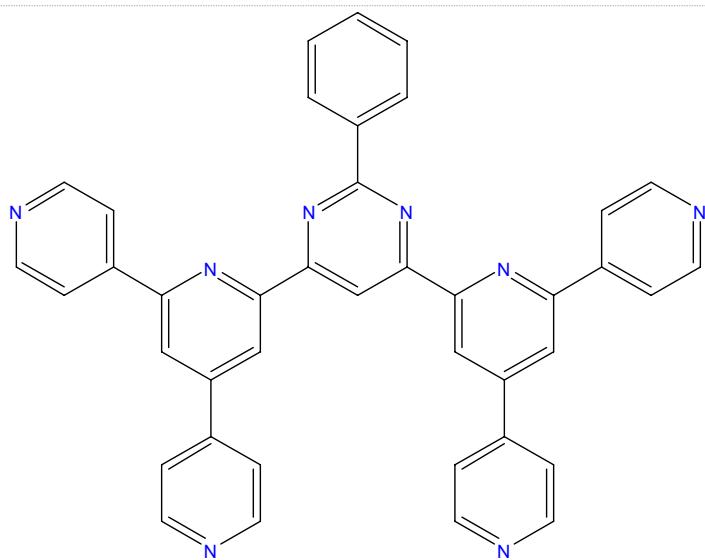


<i>plane group</i>	<i>c2mm</i>
<i>crystal class</i>	rectangular
<i>Z</i>	8
<i>Z'</i>	1
<i>molecular symmetry</i>	<i>C(2v)</i>
<i>site symmetry</i>	<i>m</i>
<i>molecular weight (Da)</i>	618.69
<i>multicomponent</i>	no

Ziener, U., Lehn, J.-M., Mourran, A. & Möller, M. Chem.-Eur. J. 2002 8, 951-957.

Samorí, P., Severin, N., Simpson, C. D., Müllen, K. & Rabe, J. P. J. Am. Chem. Soc. 2002 124, 9454-9457.

Record 359



<i>plane group</i>	<i>c2mm</i>
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