

**Table 1.** Crystal and Structure Refinement parameters for compounds **1**, **3**, and **4**.

Parameters	<b>1</b>	<b>3</b>	<b>4</b>
Empirical formula	C <sub>27</sub> H <sub>33</sub> N <sub>2</sub> P Si	C <sub>27</sub> H <sub>45</sub> N <sub>3</sub> Si	C <sub>21</sub> H <sub>37</sub> N <sub>3</sub> Si
Formula Weight	444.61	439.75	359.63
Crystal system	triclinic	monoclinic	monoclinic
Space group	<i>P</i> 1̄	<i>P</i> 2 <sub>1</sub> /c	<i>C</i> 2/c
Unit cell dimensions	<i>a</i> = 8.384 (3) Å <i>b</i> = 9.073 (3) Å <i>c</i> = 17.254 (4) Å α = 89.190 (10)° β = 86.06 (2)° γ = 72.48 (1)°	<i>a</i> = 15.040 (4) Å <i>b</i> = 11.542 (4) Å <i>c</i> = 16.516 (6) Å α = 90° β = 111.70 (2)° γ = 90°	<i>a</i> = 27.820 (2) Å <i>b</i> = 8.447 (3) Å <i>c</i> = 19.099 (2) Å α = 90° β = 99.35(2)° γ = 90°
Volume, Z	1248.5 (7) Å <sup>3</sup> , 2	2663.9 (15) Å <sup>3</sup> , 4	4428.6 (17) Å <sup>3</sup> , 8
Density (Calcd)	1.183 g/cm <sup>3</sup>	1.096 mg/m <sup>3</sup>	1.079 mg/m <sup>3</sup>
Absorption coefficient	0.175 mm <sup>-1</sup>	0.106 mm <sup>-1</sup>	0.114 mm <sup>-1</sup>
<i>F</i> (000)	476	968	1584
Crystal size [mm <sup>3</sup> ]	0.10 x 0.10 x 0.10	0.20 x 0.10 x 0.02	0.15 x 0.10 x 0.02
θ range for data collection	1.18 to 28.30°	1.46 to 26.35°	1.48 to 27.58°
Limiting indices	-11 ≤ <i>h</i> ≤ 11, -12 ≤ <i>k</i> ≤ 12, -22 ≤ <i>l</i> ≤ 22	-18 ≤ <i>h</i> ≤ 18, -14 ≤ <i>k</i> ≤ 14, -20 ≤ <i>l</i> ≤ 20	-36 ≤ <i>h</i> ≤ 36, -10 ≤ <i>k</i> ≤ 10, -24 ≤ <i>l</i> ≤ 24
Reflections collected	42389	60239	39498
Independent reflections	6185 ( <i>R</i> <sub>int</sub> = 0.0192)	5422 ( <i>R</i> <sub>int</sub> = 0.0398)	5111 ( <i>R</i> <sub>int</sub> = 0.0492)

Completeness to $\theta$	99.7% ( $\theta = 28.30$ )	99.5% ( $\theta = 26.35$ )	99.9% ( $\theta = 27.58$ )
Refinement method	Full - matrix least - squares on $F^2$	Full - matrix least - squares on $F^2$	Full - matrix least - squares on $F^2$
Data/ restraints/ parameters	6185 / 0 / 286	5422 / 0 / 286	5111 / 0 / 236
Goodness - of - fit on $F^2$	1.061	1.043	1.047
Final R indices [ $I > 2\sigma(I)$ ]	$R1 = 0.0311, wR2 = 0.0828$	$R1 = 0.0379, wR2 = 0.0876$	$R1 = 0.0416, wR2 = 0.0936$
$R$ indices (all data)	$R1 = 0.0333, wR2 = 0.0841$	$R1 = 0.0493, wR2 = 0.0921$	$R1 = 0.0621, wR2 = 0.1002$
Largest diff. peak and hole	0.355 and -0.259 e $\text{\AA}^{-3}$	0.219 and -0.264 e $\text{\AA}^{-3}$	0.299 and -0.263 e $\text{\AA}^{-3}$