

Table 1. Crystal data and structure refinement for [Me₂GaBi(SiMe₃)₂]₃ 1.

Empirical formula	C ₂₄ H ₇₂ Bi ₃ Ga ₃ Si ₆
Formula weight	1365.46
Temperature	123(2) K
Wavelength	0.71073 Å (MoKα)
Crystal system, space group	Monoclinic, <i>P</i> 2(1)/ <i>n</i> (No. 14)
Unit cell dimensions	<i>a</i> = 9.5769(1) Å α = 90° <i>b</i> = 20.8442(2) Å β = 96.077(1)° <i>c</i> = 24.4343(3) Å γ = 90°
Volume	4850.23(9) Å ³
Z, Calculated density	4, 1.870 Mg/m ³
Absorption coefficient	12.649 mm ⁻¹
F(000)	2568
Crystal size	0.40 × 0.20 × 0.10 mm
Diffractometer	Nonius KappaCCD
Theta range for data collection	2.57 to 25.00°
Limiting indices	-11 ≤ <i>h</i> ≤ 11, -24 ≤ <i>k</i> ≤ 23, -29 ≤ <i>l</i> ≤ 29
Reflections collected / unique	65519 / 8512 [<i>R</i> _{int} = 0.1092]
Completeness to θ = 25.00	99.7 %
Absorption correction	Empirical from multiple reflections
Max. and min. transmission	0.2534 and 0.1193
Refinement method	Full-matrix least-squares on <i>F</i> ²
Data / restraints / parameters	8512 / 0 / 325
Goodness-of-fit on <i>F</i> ²	0.950
Final <i>R</i> indices [<i>I</i> > 2σ(<i>I</i>)]	<i>R</i> 1 = 0.0309, <i>wR</i> 2 = 0.0681
<i>R</i> indices (all data)	<i>R</i> 1 = 0.0483, <i>wR</i> 2 = 0.0720
Largest diff. peak and hole	1.067 and -1.808 e Å ⁻³

Table 2. Atomic coordinates ($\times 10^4$) and equivalent isotropic displacement parameters ($\text{\AA}^2 \times 10^3$) for $[\text{Me}_2\text{GaBi}(\text{SiMe}_3)_2]_3$. 1. $U(\text{eq})$ is defined as one third of the trace of the orthogonalized U_{ij} tensor.

	x	y	z	$U(\text{eq})$
Bi(1)	4002(1)	1391(1)	1346(1)	21(1)
Bi(2)	3736(1)	2440(1)	2826(1)	23(1)
Bi(3)	4009(1)	3478(1)	1336(1)	23(1)
Ga(1)	5170(1)	2435(1)	859(1)	26(1)
Ga(2)	3197(1)	1236(1)	2400(1)	25(1)
Ga(3)	2688(1)	3523(1)	2287(1)	27(1)
Si(1)	1822(2)	997(1)	672(1)	27(1)
Si(2)	5879(2)	504(1)	1168(1)	29(1)
Si(3)	2611(2)	2453(1)	3765(1)	30(1)
Si(4)	6424(2)	2485(1)	3178(1)	31(1)
Si(5)	6000(2)	4357(1)	1341(1)	36(1)
Si(6)	2161(2)	3977(1)	576(1)	34(1)
C(1)	7248(7)	2428(3)	1068(3)	42(2)
C(2)	4573(9)	2445(3)	59(3)	46(2)
C(3)	4529(7)	609(3)	2796(3)	40(2)
C(4)	1117(6)	1153(3)	2357(3)	36(2)
C(5)	688(7)	3335(4)	2056(3)	54(2)
C(6)	3263(8)	4293(3)	2714(3)	47(2)
C(7)	1286(7)	168(3)	832(3)	49(2)
C(8)	2198(7)	1044(3)	-62(3)	44(2)
C(9)	347(7)	1545(3)	772(3)	45(2)
C(10)	6445(7)	662(3)	473(3)	46(2)
C(11)	7432(7)	573(3)	1693(3)	43(2)
C(12)	5143(7)	-326(3)	1204(3)	51(2)
C(13)	3533(8)	3031(4)	4262(3)	52(2)
C(14)	2630(8)	1637(3)	4065(3)	51(2)
C(15)	750(7)	2713(4)	3601(3)	55(2)
C(16)	7352(7)	2253(4)	2576(3)	53(2)
C(17)	6927(7)	3314(3)	3407(3)	48(2)
C(18)	6816(7)	1903(4)	3759(3)	48(2)
C(19)	5237(8)	5189(3)	1293(3)	50(2)
C(20)	7057(8)	4206(3)	758(3)	55(2)
C(21)	7136(8)	4296(4)	2005(4)	59(2)
C(22)	1329(7)	4702(3)	845(3)	47(2)
C(23)	764(7)	3369(3)	372(3)	45(2)
C(24)	3039(8)	4194(3)	-45(3)	49(2)

Table 3. Bond lengths [Å] and angles [°] for [Me₂GaBi(SiMe₃)₂]₃ 1.

Bi(1)–Si(2)	2.6465(18)	Si(1)–C(9)	1.852(7)
Bi(1)–Si(1)	2.6489(18)	Si(1)–C(7)	1.856(7)
Bi(1)–Ga(1)	2.7731(7)	Si(1)–C(8)	1.869(7)
Bi(1)–Ga(2)	2.7829(7)	Si(2)–C(11)	1.864(7)
Bi(2)–Si(4)	2.6278(19)	Si(2)–C(10)	1.866(7)
Bi(2)–Si(3)	2.6350(18)	Si(2)–C(12)	1.875(7)
Bi(2)–Ga(2)	2.7441(7)	Si(3)–C(14)	1.854(7)
Bi(2)–Ga(3)	2.7507(7)	Si(3)–C(13)	1.865(7)
Bi(3)–Si(6)	2.6389(19)	Si(3)–C(15)	1.865(7)
Bi(3)–Si(5)	2.6430(19)	Si(4)–C(16)	1.861(7)
Bi(3)–Ga(1)	2.7569(7)	Si(4)–C(17)	1.864(7)
Bi(3)–Ga(3)	2.7613(7)	Si(4)–C(18)	1.876(7)
Ga(1)–C(2)	1.978(7)	Si(5)–C(21)	1.858(8)
Ga(1)–C(1)	2.002(7)	Si(5)–C(20)	1.860(7)
Ga(2)–C(4)	1.991(6)	Si(5)–C(19)	1.881(7)
Ga(2)–C(3)	2.003(6)	Si(6)–C(22)	1.859(7)
Ga(3)–C(6)	1.960(6)	Si(6)–C(24)	1.868(7)
Ga(3)–C(5)	1.978(7)	Si(6)–C(23)	1.872(7)
Si(2)–Bi(1)–Si(1)	100.69(6)	C(9)–Si(1)–C(7)	108.3(3)
Si(2)–Bi(1)–Ga(1)	99.52(4)	C(9)–Si(1)–C(8)	108.8(3)
Si(1)–Bi(1)–Ga(1)	107.65(4)	C(7)–Si(1)–C(8)	109.7(3)
Si(2)–Bi(1)–Ga(2)	109.34(5)	C(9)–Si(1)–Bi(1)	106.8(2)
Si(1)–Bi(1)–Ga(2)	105.20(4)	C(7)–Si(1)–Bi(1)	112.0(2)
Ga(1)–Bi(1)–Ga(2)	130.69(2)	C(8)–Si(1)–Bi(1)	111.2(2)
Si(4)–Bi(2)–Si(3)	101.07(6)	C(11)–Si(2)–C(10)	109.0(3)
Si(4)–Bi(2)–Ga(2)	107.20(4)	C(11)–Si(2)–C(12)	108.4(3)
Si(3)–Bi(2)–Ga(2)	105.20(4)	C(10)–Si(2)–C(12)	110.7(3)
Si(4)–Bi(2)–Ga(3)	114.96(4)	C(11)–Si(2)–Bi(1)	109.8(2)
Si(3)–Bi(2)–Ga(3)	104.25(4)	C(10)–Si(2)–Bi(1)	107.2(2)
Ga(2)–Bi(2)–Ga(3)	121.62(2)	C(12)–Si(2)–Bi(1)	111.8(2)
Si(6)–Bi(3)–Si(5)	99.22(6)	C(14)–Si(3)–C(13)	110.5(3)
Si(6)–Bi(3)–Ga(1)	106.47(5)	C(14)–Si(3)–C(15)	108.7(4)
Si(5)–Bi(3)–Ga(1)	103.02(4)	C(13)–Si(3)–C(15)	109.2(4)
Si(6)–Bi(3)–Ga(3)	104.21(5)	C(14)–Si(3)–Bi(2)	110.3(3)
Si(5)–Bi(3)–Ga(3)	111.54(5)	C(13)–Si(3)–Bi(2)	111.4(2)
Ga(1)–Bi(3)–Ga(3)	128.60(2)	C(15)–Si(3)–Bi(2)	106.6(2)
C(2)–Ga(1)–C(1)	115.4(3)	C(16)–Si(4)–C(17)	110.4(3)
C(2)–Ga(1)–Bi(3)	108.8(2)	C(16)–Si(4)–C(18)	110.9(4)
C(1)–Ga(1)–Bi(3)	109.4(2)	C(17)–Si(4)–C(18)	110.3(3)
C(2)–Ga(1)–Bi(1)	110.2(2)	C(16)–Si(4)–Bi(2)	105.4(2)
C(1)–Ga(1)–Bi(1)	108.67(19)	C(17)–Si(4)–Bi(2)	110.2(2)
Bi(3)–Ga(1)–Bi(1)	103.78(2)	C(18)–Si(4)–Bi(2)	109.5(2)

C(4)–Ga(2)–C(3)	123.4(3)	C(21)–Si(5)–C(20)	110.0(4)
C(4)–Ga(2)–Bi(2)	104.3(2)	C(21)–Si(5)–C(19)	107.8(4)
C(3)–Ga(2)–Bi(2)	109.2(2)	C(20)–Si(5)–C(19)	110.3(3)
C(4)–Ga(2)–Bi(1)	109.6(2)	C(21)–Si(5)–Bi(3)	108.2(3)
C(3)–Ga(2)–Bi(1)	107.3(2)	C(20)–Si(5)–Bi(3)	109.3(3)
Bi(2)–Ga(2)–Bi(1)	100.71(2)	C(19)–Si(5)–Bi(3)	111.3(2)
C(6)–Ga(3)–C(5)	121.5(3)	C(22)–Si(6)–C(24)	109.7(3)
C(6)–Ga(3)–Bi(2)	110.4(2)	C(22)–Si(6)–C(23)	108.9(3)
C(5)–Ga(3)–Bi(2)	105.5(2)	C(24)–Si(6)–C(23)	108.5(3)
C(6)–Ga(3)–Bi(3)	110.4(2)	C(22)–Si(6)–Bi(3)	110.6(2)
C(5)–Ga(3)–Bi(3)	105.6(2)	C(24)–Si(6)–Bi(3)	109.9(2)
Bi(2)–Ga(3)–Bi(3)	101.46(2)	C(23)–Si(6)–Bi(3)	109.1(2)

Table 4. Anisotropic displacement parameters ($\text{\AA}^2 \times 10^3$) for $[\text{Me}_2\text{GaBi}(\text{SiMe}_3)_2]_3$ **1**. The anisotropic displacement factor exponent takes the form: $-2 \pi^2 [h^2 a^{*2} U_{11} + \dots + 2 h k a^* b^* U_{12}]$

	U11	U22	U33	U23	U13	U12
Bi(1)	21(1)	20(1)	21(1)	-1(1)	3(1)	1(1)
Bi(2)	23(1)	25(1)	19(1)	-1(1)	1(1)	-2(1)
Bi(3)	25(1)	21(1)	23(1)	0(1)	6(1)	0(1)
Ga(1)	28(1)	24(1)	26(1)	-1(1)	9(1)	0(1)
Ga(2)	25(1)	25(1)	25(1)	3(1)	3(1)	-2(1)
Ga(3)	24(1)	31(1)	27(1)	1(1)	6(1)	4(1)
Si(1)	24(1)	29(1)	27(1)	1(1)	-1(1)	0(1)
Si(2)	25(1)	26(1)	37(1)	-1(1)	4(1)	6(1)
Si(3)	28(1)	42(1)	20(1)	0(1)	2(1)	-3(1)
Si(4)	24(1)	38(1)	29(1)	-4(1)	-1(1)	-3(1)
Si(5)	32(1)	24(1)	53(1)	-1(1)	14(1)	-4(1)
Si(6)	41(1)	30(1)	29(1)	3(1)	-1(1)	5(1)
C(1)	25(4)	44(5)	58(5)	5(4)	12(4)	-4(3)
C(2)	73(6)	33(5)	34(4)	-3(3)	13(4)	-2(4)
C(3)	44(5)	28(4)	46(5)	12(3)	2(4)	0(3)
C(4)	25(4)	41(5)	45(5)	-5(4)	12(3)	-10(3)
C(5)	28(4)	80(6)	54(6)	22(5)	6(4)	7(4)
C(6)	69(6)	35(5)	38(5)	-13(4)	13(4)	1(4)
C(7)	46(5)	39(5)	57(6)	6(4)	-16(4)	-5(4)
C(8)	43(5)	50(5)	39(5)	-8(4)	0(4)	-4(4)
C(9)	30(4)	52(5)	50(5)	0(4)	-2(4)	5(4)
C(10)	42(5)	46(5)	50(5)	-7(4)	14(4)	11(4)
C(11)	32(5)	54(5)	43(5)	3(4)	0(4)	15(4)
C(12)	43(5)	33(5)	77(7)	3(4)	5(4)	8(4)
C(13)	52(5)	67(6)	38(5)	-20(4)	5(4)	-4(4)
C(14)	64(6)	54(5)	34(5)	10(4)	-1(4)	-8(4)
C(15)	30(5)	100(7)	39(5)	1(5)	10(4)	13(4)
C(16)	32(5)	75(6)	53(6)	-20(5)	6(4)	-14(4)
C(17)	29(4)	53(5)	62(6)	-12(4)	0(4)	-13(4)
C(18)	37(5)	60(6)	43(5)	6(4)	-16(4)	5(4)
C(19)	49(5)	25(4)	79(6)	-1(4)	25(4)	-5(4)
C(20)	55(6)	31(5)	85(7)	7(4)	42(5)	6(4)
C(21)	38(5)	49(5)	87(7)	-5(5)	-10(5)	-10(4)
C(22)	49(5)	31(4)	61(6)	7(4)	2(4)	10(4)
C(23)	48(5)	50(5)	34(5)	-4(4)	-7(4)	5(4)
C(24)	68(6)	37(5)	41(5)	10(4)	4(4)	3(4)

Table 5. Hydrogen coordinates ($\times 10^4$) and isotropic displacement parameters ($\text{\AA}^2 \times 10^3$) for $[\text{Me}_2\text{GaBi}(\text{SiMe}_3)_2]_3$ 1.

	x	y	z	U(eq)
H(1A)	7441	2420	1470	63
H(1B)	7664	2815	924	63
H(1C)	7657	2047	912	63
H(2A)	3545	2440	-3	69
H(2B)	4948	2066	-113	69
H(2C)	4930	2834	-104	69
H(3A)	5497	743	2763	59
H(3B)	4370	182	2634	59
H(3C)	4371	595	3186	59
H(4A)	676	1510	2143	55
H(4B)	824	1161	2729	55
H(4C)	828	746	2178	55
H(5A)	614	2935	1844	81
H(5B)	277	3687	1827	81
H(5C)	183	3290	2382	81
H(6A)	4288	4300	2790	70
H(6B)	2840	4287	3062	70
H(6C)	2947	4676	2503	70
H(7A)	2054	-129	780	74
H(7B)	452	49	586	74
H(7C)	1071	148	1215	74
H(8A)	2979	756	-120	66
H(8B)	2452	1485	-149	66
H(8C)	1362	914	-303	66
H(9A)	133	1520	1155	67
H(9B)	-482	1418	526	67
H(9C)	610	1985	689	67
H(10A)	5633	628	194	68
H(10B)	7156	346	395	68
H(10C)	6844	1094	464	68
H(11A)	7144	488	2059	65
H(11B)	7821	1008	1683	65
H(11C)	8146	261	1612	65
H(12A)	4862	-402	1573	77
H(12B)	5860	-640	1128	77
H(12C)	4323	-371	931	77
H(13A)	4510	2895	4351	79
H(13B)	3062	3042	4599	79
H(13C)	3513	3460	4097	79
H(14A)	2127	1341	3802	77
H(14B)	2171	1645	4405	77
H(14C)	3604	1492	4148	77

H(15A)	261	2411	3339	83
H(15B)	726	3143	3437	83
H(15C)	285	2722	3939	83
H(16A)	7083	1816	2462	79
H(16B)	8369	2272	2678	79
H(16C)	7094	2550	2271	79
H(17A)	6428	3430	3723	72
H(17B)	6676	3616	3105	72
H(17C)	7942	3333	3514	72
H(18A)	6306	2030	4069	73
H(18B)	7827	1902	3876	73
H(18C)	6519	1472	3636	73
H(19A)	4672	5260	1599	75
H(19B)	4643	5236	943	75
H(19C)	6000	5504	1311	75
H(20A)	7462	3774	792	82
H(20B)	7813	4524	765	82
H(20C)	6452	4241	410	82
H(21A)	6571	4374	2310	89
H(21B)	7887	4616	2014	89
H(21C)	7547	3865	2040	89
H(22A)	2055	5020	960	71
H(22B)	834	4582	1161	71
H(22C)	660	4884	555	71
H(23A)	1193	2985	229	67
H(23B)	81	3550	87	67
H(23C)	288	3253	694	67
H(24A)	3785	4507	57	73
H(24B)	2348	4380	-325	73
H(24C)	3445	3808	-194	73

Table 6. Torsion angles [°] for [Me₂GaBi(SiMe₃)₂]₃ 1.

Si(6)–Bi(3)–Ga(1)–C(2)	10.3(2)	Si(2)–Bi(1)–Si(1)–C(9)	176.8(3)
Si(5)–Bi(3)–Ga(1)–C(2)	–93.6(2)	Ga(1)–Bi(1)–Si(1)–C(9)	–79.5(3)
Ga(3)–Bi(3)–Ga(1)–C(2)	134.6(2)	Ga(2)–Bi(1)–Si(1)–C(9)	63.2(3)
Si(6)–Bi(3)–Ga(1)–C(1)	137.1(2)	Si(2)–Bi(1)–Si(1)–C(7)	58.4(3)
Si(5)–Bi(3)–Ga(1)–C(1)	33.3(2)	Ga(1)–Bi(1)–Si(1)–C(7)	162.1(3)
Ga(3)–Bi(3)–Ga(1)–C(1)	–98.6(2)	Ga(2)–Bi(1)–Si(1)–C(7)	–55.2(3)
Si(6)–Bi(3)–Ga(1)–Bi(1)	–107.03(5)	Si(2)–Bi(1)–Si(1)–C(8)	–64.6(3)
Si(5)–Bi(3)–Ga(1)–Bi(1)	149.10(5)	Ga(1)–Bi(1)–Si(1)–C(8)	39.1(3)
Ga(3)–Bi(3)–Ga(1)–Bi(1)	17.27(4)	Ga(2)–Bi(1)–Si(1)–C(8)	–178.2(2)
Si(2)–Bi(1)–Ga(1)–C(2)	84.9(2)	Si(1)–Bi(1)–Si(2)–C(11)	–169.1(2)
Si(1)–Bi(1)–Ga(1)–C(2)	–19.6(2)	Ga(1)–Bi(1)–Si(2)–C(11)	80.7(2)
Ga(2)–Bi(1)–Ga(1)–C(2)	–149.2(2)	Ga(2)–Bi(1)–Si(2)–C(11)	–58.7(3)
Si(2)–Bi(1)–Ga(1)–C(1)	–42.4(2)	Si(1)–Bi(1)–Si(2)–C(10)	72.6(3)
Si(1)–Bi(1)–Ga(1)–C(1)	–146.9(2)	Ga(1)–Bi(1)–Si(2)–C(10)	–37.5(3)
Ga(2)–Bi(1)–Ga(1)–C(1)	83.6(2)	Ga(2)–Bi(1)–Si(2)–C(10)	–176.9(2)
Si(2)–Bi(1)–Ga(1)–Bi(3)	–158.73(5)	Si(1)–Bi(1)–Si(2)–C(12)	–48.8(3)
Si(1)–Bi(1)–Ga(1)–Bi(3)	96.74(5)	Ga(1)–Bi(1)–Si(2)–C(12)	–159.0(3)
Ga(2)–Bi(1)–Ga(1)–Bi(3)	–32.79(4)	Ga(2)–Bi(1)–Si(2)–C(12)	61.6(3)
Si(4)–Bi(2)–Ga(2)–C(4)	163.4(2)	Si(4)–Bi(2)–Si(3)–C(14)	–81.8(3)
Si(3)–Bi(2)–Ga(2)–C(4)	56.4(2)	Ga(2)–Bi(2)–Si(3)–C(14)	29.6(3)
Ga(3)–Bi(2)–Ga(2)–C(4)	–61.4(2)	Ga(3)–Bi(2)–Si(3)–C(14)	158.6(3)
Si(4)–Bi(2)–Ga(2)–C(3)	29.8(2)	Si(4)–Bi(2)–Si(3)–C(13)	41.3(3)
Si(3)–Bi(2)–Ga(2)–C(3)	–77.2(2)	Ga(2)–Bi(2)–Si(3)–C(13)	152.8(3)
Ga(3)–Bi(2)–Ga(2)–C(3)	165.0(2)	Ga(3)–Bi(2)–Si(3)–C(13)	–78.2(3)
Si(4)–Bi(2)–Ga(2)–Bi(1)	–82.99(5)	Si(4)–Bi(2)–Si(3)–C(15)	160.3(3)
Si(3)–Bi(2)–Ga(2)–Bi(1)	170.01(4)	Ga(2)–Bi(2)–Si(3)–C(15)	–88.2(3)
Ga(3)–Bi(2)–Ga(2)–Bi(1)	52.19(3)	Ga(3)–Bi(2)–Si(3)–C(15)	40.8(3)
Si(2)–Bi(1)–Ga(2)–C(4)	–125.2(2)	Si(3)–Bi(2)–Si(4)–C(16)	164.8(3)
Si(1)–Bi(1)–Ga(2)–C(4)	–17.8(2)	Ga(2)–Bi(2)–Si(4)–C(16)	54.9(3)
Ga(1)–Bi(1)–Ga(2)–C(4)	112.6(2)	Ga(3)–Bi(2)–Si(4)–C(16)	–83.7(3)
Si(2)–Bi(1)–Ga(2)–C(3)	11.1(2)	Si(3)–Bi(2)–Si(4)–C(17)	–76.1(3)
Si(1)–Bi(1)–Ga(2)–C(3)	118.5(2)	Ga(2)–Bi(2)–Si(4)–C(17)	174.0(3)
Ga(1)–Bi(1)–Ga(2)–C(3)	–111.1(2)	Ga(3)–Bi(2)–Si(4)–C(17)	35.5(3)
Si(2)–Bi(1)–Ga(2)–Bi(2)	125.28(5)	Si(3)–Bi(2)–Si(4)–C(18)	45.5(3)
Si(1)–Bi(1)–Ga(2)–Bi(2)	–127.32(4)	Ga(2)–Bi(2)–Si(4)–C(18)	–64.4(3)
Ga(1)–Bi(1)–Ga(2)–Bi(2)	3.08(4)	Ga(3)–Bi(2)–Si(4)–C(18)	157.0(3)
Si(4)–Bi(2)–Ga(3)–C(6)	–48.7(2)	Si(6)–Bi(3)–Si(5)–C(21)	159.4(3)
Si(3)–Bi(2)–Ga(3)–C(6)	61.0(2)	Ga(1)–Bi(3)–Si(5)–C(21)	–91.2(3)
Ga(2)–Bi(2)–Ga(3)–C(6)	179.3(2)	Ga(3)–Bi(3)–Si(5)–C(21)	50.0(3)
Si(4)–Bi(2)–Ga(3)–C(5)	178.3(2)	Si(6)–Bi(3)–Si(5)–C(20)	–80.9(3)
Si(3)–Bi(2)–Ga(3)–C(5)	–72.0(2)	Ga(1)–Bi(3)–Si(5)–C(20)	28.5(3)
Ga(2)–Bi(2)–Ga(3)–C(5)	46.3(2)	Ga(3)–Bi(3)–Si(5)–C(20)	169.7(3)
Si(4)–Bi(2)–Ga(3)–Bi(3)	68.34(5)	Si(6)–Bi(3)–Si(5)–C(19)	41.1(3)

Si(3)–Bi(2)–Ga(3)–Bi(3)	178.02(4)	Ga(1)–Bi(3)–Si(5)–C(19)	150.5(3)
Ga(2)–Bi(2)–Ga(3)–Bi(3)	–63.69(3)	Ga(3)–Bi(3)–Si(5)–C(19)	–68.2(3)
Si(6)–Bi(3)–Ga(3)–C(6)	–96.1(2)	Si(5)–Bi(3)–Si(6)–C(22)	–72.0(3)
Si(5)–Bi(3)–Ga(3)–C(6)	10.0(2)	Ga(1)–Bi(3)–Si(6)–C(22)	–178.7(3)
Ga(1)–Bi(3)–Ga(3)–C(6)	138.7(2)	Ga(3)–Bi(3)–Si(6)–C(22)	43.1(3)
Si(6)–Bi(3)–Ga(3)–C(5)	37.0(2)	Si(5)–Bi(3)–Si(6)–C(24)	49.3(3)
Si(5)–Bi(3)–Ga(3)–C(5)	143.1(2)	Ga(1)–Bi(3)–Si(6)–C(24)	–57.3(3)
Ga(1)–Bi(3)–Ga(3)–C(5)	–88.2(2)	Ga(3)–Bi(3)–Si(6)–C(24)	164.4(3)
Si(6)–Bi(3)–Ga(3)–Bi(2)	146.83(5)	Si(5)–Bi(3)–Si(6)–C(23)	168.2(2)
Si(5)–Bi(3)–Ga(3)–Bi(2)	–107.05(5)	Ga(1)–Bi(3)–Si(6)–C(23)	61.6(3)
Ga(1)–Bi(3)–Ga(3)–Bi(2)	21.64(4)	Ga(3)–Bi(3)–Si(6)–C(23)	–76.6(2)