50-0792 Wavelength= 1.540598 *

GaN

Gallium Nitride

Rad.: CuKa1 λ: 1.540598 Filter: Graph Mono d-sp: Diff.

Cut off: 3.0 Int.: Diffract. I/Icor.:

Ref: Balkas, C., Basceri, C., Davis, R., Powder Diffraction,
10, 266 (1995)

Sys.: Hexagonal S.G.: $P6_3mc$ (186)

a: 3.18907(8) b: c: 5.1855(2) A: C: 1.6260

α: β: γ: Z: 2 mp:

Ref: Ibid.

Dx: 6.088 Dm: SS/FOM: F_{23} = 101 (.0095 , 24)

Color: Off-white
Prepared from molten Ga at 975 C reacted with flowing N H3 (400 sccm) and rapidly cooled. S Zn type. Silicon used as an internal stand. PSC: hP4. To replace 2-1078. Mwt: 83.73. Volume[CD]: 45.67.

d(A)	Int	h	k	l
2.762	56	1	0	0
2.593	45	0	0	2
2.437	100	1	0	1
1.891	19	1	0	2
1.5945	31	1	1	0
1.4649	27	1	0	3
1.3809	4	2	0	0
1.3582	22	1	1	2
1.3345	12	2	0	1
1.2964	3	0	0	4
1.2186	3	2	0	2
1.1737	2	1	0	4
1.0790	7	2	0	3
1.0438	3	2	1	0
1.0234	8	2	1	1
1.0059	5	1	1	4
.9709	6	1	0	5
.9683	5	2	1	2
.9452	1	2	0	4
.9207	4	3	0	0
.8936	8	2	1	3
.8676	4	3	0	2
.8644	2	0	0	6

PCPDFWIN v. 2.1