

Name and formula

Reference code: 96-900-8570

Mineral name: Graphite
Compound name: Graphite
Common name: Graphite

Chemical formula: $C_{4.00}$

Crystallographic parameters

Crystal system: Hexagonal
Space group: P 63 m c
Space group number: 186

a (Å): 2.4560
b (Å): 2.4560
c (Å): 6.6960
Alpha (°): 90.0000
Beta (°): 90.0000
Gamma (°): 120.0000

Calculated density (g/cm³): 2.28
Volume of cell (10⁶ pm³): 34.98

RIR: 2.39

Subfiles and Quality

Subfiles: User Inorganic
User Mineral

Quality: None ()

Comments

Creation Date: 2/9/2021 1:03:14 PM
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Publication title: Second edition
Interscience Publishers, New York, New York
COD database code: 9008569

References

Structure: Wyckoff, R. W. G., *Crystal Structures*, **1**, 7 - 83, (1963)

Peak list

No.	h	k	l	d [Å]	2Theta[deg]	I [%]
1	0	0	2	3.34800	26.603	100.0
2	1	0	0	2.12696	42.466	3.4
3	1	0	1	2.02715	44.666	16.7
4	1	0	2	1.79530	50.816	3.3
5	0	0	4	1.67400	54.794	6.4
6	1	0	3	1.53978	60.035	5.0

7	1	0	4	1.31545	71.688	0.8
8	1	1	0	1.22800	77.699	5.1
9	1	1	2	1.15290	83.848	8.1
10	1	0	5	1.13327	85.642	1.4
11	0	0	6	1.11600	87.297	1.2