Name and formula

Reference code: 00-001-1142

Mineral name: Cuprite
PDF index name: Copper Oxide

Empirical formula: Cu_2O
Chemical formula: Cu_2O

Crystallographic parameters

Crystal system: Cubic
Space group: Pn3m
Space group number: 224

a (Å): 4.2520
b (Å): 4.2520
c (Å): 4.2520
Alpha (°): 90.0000
Beta (°): 90.0000
Gamma (°): 90.0000

Measured density (g/cm^3): 6.14
Volume of cell (10^6 pm^3): 76.87
Z: 2.00

RIR: -

Status, subfiles and quality

Status: Marked as deleted by ICDD
Subfiles: Inorganic
Mineral
Quality: Blank (B)

Comments

Deleted by: Deleted by NBS.
Color: Red
Optical data: B=2.849
Melting point: 1235
1800d

References

Primary reference: Hanawalt. et al., *Anal. Chem.*, **10**, 475, (1938)
Unit cell: *Dana's System of Mineralogy; 7th Ed.*

Peak list

No.	h	k	l	d [A]	2Theta[deg]	I [%]
1	1	1	0	3.00000	29.757	3.0
2	1	1	1	2.45000	36.650	100.0
3	2	0	0	2.12000	42.612	31.0

4	2	2	0	1.51000	61.345	44.0
5	3	1	1	1.28000	73.997	31.0
6	2	2	2	1.23000	77.549	5.0
7	4	0	0	1.07000	92.094	3.0
8	3	3	1	0.98000	103.630	5.0
9	4	2	0	0.95000	108.357	3.0
10	4	2	2	0.87000	124.602	3.0
11	5	1	1	0.82000	139.899	3.0

Stick Pattern