

Copper phthalocyanine, CI 74160

Other names:	Copper phthalocyanine Monastral blue B Copper(II) phthalocyanine Phthalocyanine blue Copper, [29H,31H-phthalocyaninato(2-)-N(29)-,N(30)-,N(31)-,N(32)-]-, (SP-4-1)- C.I. Pigment Blue 15 Copper,[29H,31H-phthalocyaninato(2(-))-N
Inchi:	InChI=1S/C32H16N8.Cu/c1-2-10-18-17(9-1)25-33-26(18)38-28-21-13-5-6-14-22(21)30(3
InchiKey:	XCJYREBRNVKVGJ-UHFFFAOYSA-N
Formula:	C32H16CuN8
SMILES:	[Cu].c1ccc2c(c1)-c1nc-2nc2[n-]c(nc3nc([n-]c4nc(n1)-c1cccc1-4)-c1cccc1-3)c1cccc21
Mol. weight [g/mol]:	576.07
CAS:	147-14-8

Physical Properties

Property code	Value	Unit	Source
ie	7.37 ± 0.10	eV	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hsubt	266.10	kJ/mol	760.00	NIST Webbook
hsubt	231.80 ± 2.10	kJ/mol	665.50	NIST Webbook
hsubt	266.10 ± 5.10	kJ/mol	689.50	NIST Webbook

Sources

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C147148&Units=SI>

Legend

hsubt: Enthalpy of sublimation at a given temperature

ie: Ionization energy

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<https://www.chemeo.com/cid/16-323-5/Copper-phthalocyanine-CI-74160.pdf>

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