

Bis(dimethyldithiocarbamato) copper complex

Other names:	Copper, bis(dimethylcarbamodithioato-S,S')-, (SP-4-1)- Carbamic acid, dimethyldithio-, copper(ii) salt Compound-4018 Copper, bis(dimethyldithiocarbamato)- Copper(II) dimethyldithiocarbamate Cumate Wolfen Akrochem Cu.D.D Bis(dimethylcarbamodithioato-S,S') copper Copper dimethyl dithiocarbamate Perkacit CDMC copper bis(dimethyldithiocarbamate) bis(dimethyldithiocarbamate)copper
Inchi:	InChI=1S/2C3H7NS2.Cu/c2*1-4(2)3(5)6;/h2*1-2H3,(H,5,6);/q;+2/p-2
InchiKey:	ZOUQIAGHKFLHIA-UHFFFAOYSA-L
Formula:	C6H12CuN2S4
SMILES:	CN(C)C(=S)[S][Cu][S]C(=S)N(C)C
Mol. weight [g/mol]:	303.99

Physical Properties

Property code	Value	Unit	Source
hsub	156.00 ± 0.30	kJ/mol	NIST Webbook
ie	7.76	eV	Cheméo Relay (1.0)
log10ws	-4.21		Cheméo Relay (1.0)
tf	430.05	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hsubt	147.40 ± 0.80	kJ/mol	458.00	NIST Webbook
hvapt	147.40	kJ/mol	458.00	NIST Webbook

Sources

Cheméo Relay (1.0, beta):

NIST Webbook:

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C137291&Units=SI>

Cheméo Relay (1.0):

Legend

hsub:	Enthalpy of sublimation at standard conditions
hsubt:	Enthalpy of sublimation at a given temperature
hvapt:	Enthalpy of vaporization at a given temperature
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
tf:	Normal melting (fusion) point

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<https://www.chemeo.com/cid/27-286-5/Bis-dimethyldithiocarbamate-copper-complex.pdf>

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