Copper, bis(2,4-pentanedionato-O,O')-, (SP-4-1)-

Other names: Bis(acetylacetonato)copper
Copper, bis(2,4-pentanedionato)-
Bis(2,4-pentanedionato)copper
Copper acetylacetonate
Copper bis(acetylacetonate)
Copper diacetylacetonate
Copper(II) acetylacetonate
Cupric acetylacetonate
CD 9
Copper(II) 2,4-pentanedionate
Copper bis(2,4-pentanedionate)
Copper, bis(2,4-pentanedionato-O,O')-
CD 9Thimet G
copper(II) 4-oxopent-2-en-2-olate

Inchi: InChI=1S/2C5H8O2.Cu/c2*1-4(6)3-5(2)7;/h2*3,6H,1-2H3;/q;;+2/p-2/b2*4-3-;

InchiKey: QYJPSWYYEKYVEJ-FDGPNNRMSA-L

Formula: C10H14CuO4

SMILES: CC(=O)C=C(C)[O-].CC(=O)C=C(C)[O-].[Cu]

Mol. weight [g/mol]: 261.76

CAS: 13395-16-9

Physical Properties

Property code	Value	Unit	Source
hsub	127.00 ± 1.20	kJ/mol	NIST Webbook
hsub	127.10 ± 1.20	kJ/mol	NIST Webbook
hsub	127.00 ± 1.10	kJ/mol	NIST Webbook
hsub	116.60 ± 2.00	kJ/mol	NIST Webbook
hsub	115.10 ± 2.10	kJ/mol	NIST Webbook
hsub	127.50 ± 3.20	kJ/mol	NIST Webbook
hsub	154.00 ± 22.00	kJ/mol	NIST Webbook
hsub	109.90 ± 3.40	kJ/mol	NIST Webbook
ie	7.20	eV	NIST Webbook
ie	8.31 ± 0.05	eV	NIST Webbook
ie	7.75 ± 0.05	eV	NIST Webbook
ie	8.35	eV	NIST Webbook
ie	7.66	eV	NIST Webbook
ie	8.35	eV	NIST Webbook

ie	8.20	eV	NIST Webbook
ss	372.80	J/mol×K	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cps	213.40	J/mol×K	298.00	NIST Webbook
hsubt	121.60 ± 1.40	kJ/mol	403.00	NIST Webbook
hsubt	120.00	kJ/mol	428.00	NIST Webbook
hsubt	122.50 ± 1.20	kJ/mol	387.50	NIST Webbook
hsubt	122.60 ± 0.70	kJ/mol	387.50	NIST Webbook
hsubt	122.30 ± 1.10	kJ/mol	393.00	NIST Webbook
hsubt	107.10 ± 5.70	kJ/mol	492.00	NIST Webbook
hsubt	142.60 ± 6.90	kJ/mol	471.00	NIST Webbook
hsubt	109.00 ± 6.00	kJ/mol	400.00	NIST Webbook

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C13395169&Units=SI

Legend

cps: Solid phase heat capacity
hsub: Enthalpy of sublimation at standard conditions
hsubt: Enthalpy of sublimation at a given temperature
ie: Ionization energy
ss: Solid phase molar entropy at standard conditions