Bis(acetylacetonato)zinc

Other names:	Zinc, bis(2,4-pentanedionato)-
	Zinc, bis(2,4-pentanedionato-O,O')-, (T-4)-
	Bis(2,4-pentanedionato)zinc
	Zinc acetoacetonate
	Zinc acetylacetonate
	Zinc acetylacetone chelate
	Zinc bis(acetylacetonate)
	Zinc bis(acetylacetone)
	Zinc(II) acetylacetonate
	Zinc, bis(2,4-pentanedionato)di-
	(CH3COCHCOCH3)2Zn
	Zinc 2,4-pentanedionate
	Zinc bis(2,4-pentanedionate)
	Zinc, bis(2,4-pentanedionato-O,O')-
	bis(pentane-2,4-dionato-O,O')zinc
Inchi:	InChI=1S/2C5H8O2.Zn/c2*1-4(6)3-5(2)7;/h2*3,6H,1-2H3;/q;;+2/p-2/b2*4-3-;
InchiKey:	CYDXJXDAFPJUQE-FDGPNNRMSA-L
Formula:	C10H14O4Zn
SMILES:	CC(=O)C=C(C)[O-].CC(=O)C=C(C)[O-].[Zn]
Mol. weight [g/mol]:	263.60
CAS:	14024-63-6

Physical Properties

Property code	Value	Unit	Source
hsub	133.00 ± 8.00	kJ/mol	NIST Webbook
ie	7.80	eV	NIST Webbook
ie	8.62 ± 0.05	eV	NIST Webbook
ie	8.34	eV	NIST Webbook
ie	8.46	eV	NIST Webbook
tf	400.50 ± 0.10	K	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source

hfust	18.20	kJ/mol	400.50	NIST Webbook
sfust	45.50	J/mol×K	400.50	NIST Webbook

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C14024636&Units=SI

Legend

hfust: Enthalpy of fusion at a given temperature
hsub: Enthalpy of sublimation at standard conditions
ie: Ionization energy
sfust: Entropy of fusion at a given temperature
tf: Normal melting (fusion) point