Manganic acetylacetonate

Other names:	Manganese(III) 2,4-pentanedionate (CH3COCHCOCH3)3Mn Manganese(III)acetylacetonate Manganese, tris(2,4-pentanedionato-O,O')-, (OC-6-11)- Manganese tris(acetylacetonate) Manganese(3+) acetylacetonate Manganese, tris(2,4-pentanedionato)- Tris(acetylacetonato)manganese Tris(2,4-pentanedionato)manganese Manganese, tris(2,4-pentanedionato-O,O'-) NSC 82319 Manganese, tris(2,4-pentanedionato-«kappa»O,«kappa»O')-, (OC-6-11)- Manganese, tris(2,4-pentanedionato-«kappa»O2,«kappa»O4)-, (OC-6-11)- manganese tris(4-oxopent-2-en-2-oate)
Inchi:	InChI=1S/3C5H8O2.Mn/c3*1-4(6)3-5(2)7;/h3*3,6H,1-2H3;/q;;;+3/p-3/b3*4-3-;
InchiKey:	HYZQBNDRDQEWAN-LNTINUHCSA-K
Formula:	C15H21MnO6
SMILES:	CC(=O)C=C(C)[O-].CC(=O)C=C(C)[O-].CC(=O)C=C(C)[O-].[Mn]
Mol. weight [g/mol]:	352.26
CAS:	14284-89-0

Physical Properties

Property code	Value	Unit	Source
ea	2.56 ± 0.13	eV	NIST Webbook
hsub	124.70 ± 3.80	kJ/mol	NIST Webbook
hsub	77.80 ± 0.80	kJ/mol	NIST Webbook
hsub	120.00 ± 10.00	kJ/mol	NIST Webbook
ie	7.58 ± 0.05	eV	NIST Webbook
ie	7.95 ± 0.10	eV	NIST Webbook
ie	7.85 ± 0.05	eV	NIST Webbook
ie	7.32 ± 0.07	eV	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hfust	27.70	kJ/mol	421.90	NIST Webbook
hsubt	99.00	kJ/mol	392.00	NIST Webbook
hsubt	113.00	kJ/mol	370.00	NIST Webbook

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C14284890&Units=SI

Legend

ea: Electron affinity
hfust: Enthalpy of fusion at a given temperature
hsub: Enthalpy of sublimation at standard conditions
hsubt: Enthalpy of sublimation at a given temperature
ie: Ionization energy