

Bis(acetylacetonate)iron

Other names:	(Acetylacetonato)iron (Acetylacetonato)iron (ii) Bis(acetylacetonato)iron Ferroacetylacetonate Ferrous acetylacetonate Iron acetylacetonate Iron bis(acetylacetonate) Iron di(acetylacetonate) Iron(II) acetylacetonate Iron, bis(2,4-pentanedionato)- Iron, bis(2,4-pentanedionato-O,O')- Iron, bis(acetylacetonato)- Iron, dodecakis(2,4-pentanedionato)hexa- bis(2,4-pentanedionato)iron bis(2,4-pentanedionato-O,O')iron bis(pentane-2,4-dionato-O,O')iron
Inchi:	InChI=1S/2C5H8O2.Fe/c2*1-4(6)3-5(2)7;/h2*3,6H,1-2H3;/q;;+2/p-2/b2*4-3-;
InchiKey:	LFORAFQNBQKDRY-FDGPNNRMSA-L
Formula:	C10H14FeO4
SMILES:	CC(=O)C=C(C)[O-].CC(=O)C=C(C)[O-].[Fe]
Mol. weight [g/mol]:	254.06
CAS:	14024-17-0

Physical Properties

Property code	Value	Unit	Source
hsub	131.20 ± 8.70	kJ/mol	NIST Webbook
ie	7.50 ± 0.04	eV	NIST Webbook
ie	8.10 ± 0.05	eV	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hsubt	117.60	kJ/mol	385.00	NIST Webbook

Sources

Effect of the chemical structures of iron <https://www.doi.org/10.1016/j.fluid.2011.05.008>

complexes on the solubilities in

Supercritical carbon dioxide:

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C14024170&Units=SI>

Legend

hsub: Enthalpy of sublimation at standard conditions

hsubt: Enthalpy of sublimation at a given temperature

ie: Ionization energy

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