Zirconium acetylacetonate

Other names: Zirconium, tetrakis(2,4-pentanedionato-O,O')-
Zirconium, tetrakis(2,4-pentanedionato)-
Tetrakis(acetylacetonato)zirconium
Tetrakis(2,4-pentanedionato)zirconium
Zirconium tetraacetylacetonate
Zirconium tetrakis(acetylacetonate)
Zirconium(IV) acetylacetonate
Zirconium, tetrakis(acetylacetonato)-
Tetrakis(acetylacetonyl)zirconium
2,4-Pentanedione, zirconium complex
Zirconium, tetrakis(2,4-pentanedionato-O,O')-, (SA-8-11''11''1'1'''1'1''')-
Zirconium, tetrakis(pentan-2,4-dionato)-
2,4-Pentanedione, Zr deriv.
AC 150
Nasemu Zirconium
NSC 148120
NSC 4660
Orgatix ZC 150
Tetraacetylacetonate zirconium
Zirconium, tetrakis(2,4-pentanedionato-«kappa»O2,«kappa»O4)-, (SA-8-11''11''1'1'''1'1''')-
tetrakis(pentane-2,4-dionato-O,O')zirconium

Inchi: InChI=1S/4C5H8O2.Zr/c4*1-4(6)3-5(2)7;/h4*3,6H,1-2H3;/q;;;;+4/p-4/b4*4-3-;

InchiKey: FPFOSIXCIBGKOH-MTOQALJVSA-J

Formula: C20H28O8Zr

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

Mol. weight [g/mol]: 487.66

CAS: 17501-44-9

Physical Properties

Property code	Value	Unit	Source
hsub	125.80 ± 2.90	kJ/mol	NIST Webbook
ie	7.60	eV	NIST Webbook
ie	7.95	eV	NIST Webbook
ie	7.95	eV	NIST Webbook
tf	470.80 ± 0.50	K	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hfust	50.10	kJ/mol	470.80	NIST Webbook
hfust	22.60	kJ/mol	472.00	NIST Webbook
hsubt	126.00	kJ/mol	428.00	NIST Webbook
hsubt	139.00 ± 2.00	kJ/mol	418.00	NIST Webbook
hsubt	132.00 ± 6.80	kJ/mol	463.00	NIST Webbook
sfust	106.30	J/mol×K	470.80	NIST Webbook

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C17501449&Units=SI

Legend

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
sfust: Entropy of fusion at a given temperature
tf: Normal melting (fusion) point