

Nickel acetylacetonate

Other names:	Nickel, bis(2,4-pentanedionato-O,O')-, (SP-4-1)- Nickel, bis(2,4-pentanedionato)- Acetylacetonato nickel Bis(acetylacetonate)nickel Bis(acetylacetonato)nickel Bis(2,4-pentanedionato)nickel Bis-2,4-pentanedionatonickel(II) Ni(II) Acetylacetonone complex (1:2) Nickel acetylacetonate Nickel bis(acetylacetonate) Nickel bis(2,4-pentanedionate) Nickel(II) acetylacetonate Nickel(2+) acetylacetonate Nickelous acetylacetonate Nickel(II) 2,4-pentanedionate Bis(acetylacetonato)nickel(II) Acetylacetonatonickel (II) Bis(acetylacetonone)nickel NSC 4657 bis(pentane-2,4-dionato-O,O')nickel
Inchi:	InChI=1S/2C5H8O2.Ni/c2*1-4(6)3-5(2)7;/h2*3,6H,1-2H3;/q;;+2/p-2/b2*4-3-;
InchiKey:	BMGNSKKZFQMGDH-FDGPNNRMSA-L
Formula:	C ₁₀ H ₁₄ NiO ₄
SMILES:	CC(=O)C=C(C)[O-].CC(=O)C=C(C)[O-].[Ni]
Mol. weight [g/mol]:	256.91
CAS:	3264-82-2

Physical Properties

Property code	Value	Unit	Source
hsub	126.40 ± 4.40	kJ/mol	NIST Webbook
hsub	155.00 ± 80.00	kJ/mol	NIST Webbook
hsub	132.00 ± 10.00	kJ/mol	NIST Webbook
ie	8.23 ± 0.05	eV	NIST Webbook
ie	7.62	eV	NIST Webbook
ie	7.35	eV	NIST Webbook
ie	7.40	eV	NIST Webbook
ie	7.41	eV	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hsubt	108.00 ± 5.00	kJ/mol	207.00	NIST Webbook
hsubt	108.20 ± 4.90	kJ/mol	480.00	NIST Webbook
hsubt	128.00 ± 10.00	kJ/mol	390.50	NIST Webbook
hsubt	95.40	kJ/mol	400.00	NIST Webbook

Sources

NIST Webbook:

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C3264822&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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