1,2-Dicarbadodecaborane(12)

Other names: o-Carborane
Inchi: InChI=1S/C2H12B10/c1-2-3(1)5(1)6(1)4(1,2)8(2)7(2,3)9(3,5)11(5,6)10(4,6,8)12(7,8,9)11/
InchiKey: PPDYBWGWYRHTPJ-UHFFFAOYSA-N
Formula: C2H12B10
Mol. weight [g/mol]: 144.23
CAS: 16872-09-6

Physical Properties

Property code	Value	Unit	Source
hsub	65.40 ± 1.00	kJ/mol	NIST Webbook; Pilcher and Skinner, 1983
ie	10.13	eV	NIST Webbook; Orlov, Pustobaev, et al., 1989
ie	10.10 ± 0.20	eV	NIST Webbook; Orlov, Pustobaev, et al., 1988
ie	9.00	eV	NIST Webbook; Vondrak, 1987
ie	10.62	eV	NIST Webbook; Vondrak, 1987
rinpol	1283.00		NIST Webbook; Stuchlik and Pacakova, 1979
rinpol	1310.00		NIST Webbook; Stuchlik and Pacakova, 1979
rinpol	1312.00		NIST Webbook; Stuchlik and Pacakova, 1979
rinpol	1336.00		NIST Webbook; Stuchlik and Pacakova, 1979
rinpol	1283.00		NIST Webbook; MSDC-RI
ripol	2175.00		NIST Webbook; Stuchlik and Pacakova, 1979
ripol	2216.00		NIST Webbook; Stuchlik and Pacakova, 1979

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source

hsubt	50.30	kJ/mol	308.00	NIST Webbook; Stephenson and Malanowski, 1987
hsubt	49.40	kJ/mol	378.00	NIST Webbook; Stephenson and Malanowski, 1987

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C16872096&Units=SI

Legend

hsub: Enthalpy of sublimation at standard conditions
hsubt: Enthalpy of sublimation at a given temperature
ie: Ionization energy
rinpol: Non-polar retention indices
ripol: Polar retention indices

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