dimethylzinc

Inchi: InChI=1S/2CH3.Zn/h2*1H3;
InchiKey: AXAZMDOAUQTMOW-UHFFFAOYSA-N
Formula: C2H6Zn
SMILES: C[Zn]C
Mol. weight [g/mol]: 95.45
CAS: 544-97-8

Physical Properties

Property code	Value	Unit	Source
chl	-2020.00 ± 5.90	kJ/mol	NIST Webbook
hf	55.40 ± 5.90	kJ/mol	NIST Webbook
hf	52.90 ± 1.30	kJ/mol	NIST Webbook
hfl	25.00 ± 5.90	kJ/mol	NIST Webbook
hfl	22.50 ± 1.30	kJ/mol	NIST Webbook
hvap	30.40 ± 0.20	kJ/mol	NIST Webbook
ie	9.40	eV	NIST Webbook
ie	9.00 ± 0.02	eV	NIST Webbook
ie	8.86 ± 0.15	eV	NIST Webbook
sl	201.60	J/mol×K	NIST Webbook
tt	230.13 ± 0.02	K	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpl	129.20	J/mol×K	298.15	NIST Webbook
hfust	6.83	kJ/mol	230.10	NIST Webbook
hfust	1.06	kJ/mol	210.30	NIST Webbook
hfust	6.83	kJ/mol	230.10	NIST Webbook
hvapt	30.40 ± 0.10	kJ/mol	293.00	NIST Webbook
hvapt	29.90	kJ/mol	283.00	NIST Webbook
sfust	5.05	J/mol×K	210.30	NIST Webbook
sfust	29.68	J/mol×K	230.10	NIST Webbook

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C544978&Units=SI

Legend

chl:	Standard liquid enthalpy of combustion
cpl:	Liquid phase heat capacity
hf:	Enthalpy of formation at standard conditions
hfl:	Liquid phase enthalpy of formation at standard conditions
hfust:	Enthalpy of fusion at a given temperature
hvap:	Enthalpy of vaporization at standard conditions
hvapt:	Enthalpy of vaporization at a given temperature
ie:	Ionization energy
sfust:	Entropy of fusion at a given temperature
sl:	Liquid phase molar entropy at standard conditions
tt:	Triple Point Temperature