Methyl diselenide

Other names:	(CH3Se)2
	Dimethyl diselenide
	Diselenide, dimethyl
Inchi:	InChI=1S/C2H6Se2/c1-3-4-2/h1-2H3
InchiKey:	VLXBWPOEOIIREY-UHFFFAOYSA-N
Formula:	C2H6Se2
SMILES:	C[Se][Se]C
Mol. weight [g/mol]:	187.99
CAS:	7101-31-7

Physical Properties

Property code	Value	Unit	Source
hvap	42.00 ± 1.00	kJ/mol	NIST Webbook
ie	8.10	eV	NIST Webbook
ie	8.10	eV	NIST Webbook
ie	8.52	eV	NIST Webbook
ie	8.56	eV	NIST Webbook
ie	8.56	eV	NIST Webbook
log10ws	4.09		Crippen Method
logp	0.406		Crippen Method
rinpol	889.00		NIST Webbook
rinpol	848.00		NIST Webbook
rinpol	889.00		NIST Webbook
sl	261.40	J/mol×K	NIST Webbook
tt	190.89 ± 0.01	K	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpl	155.00	J/mol×K	298.15	NIST Webbook
hfust	8.54	kJ/mol	190.89	NIST Webbook
hfust	8.55	kJ/mol	190.80	NIST Webbook
hvapt	74.90	kJ/mol	300.50	NIST Webbook
sfust	44.76	J/mol×K	190.89	NIST Webbook

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C7101317&Units=SI

Legend

cpl:	Liquid phase heat capacity
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
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
rinpol:	Non-polar retention indices
sfust:	Entropy of fusion at a given temperature
sl:	Liquid phase molar entropy at standard conditions
tt:	Triple Point Temperature