

Diethyl selenide

Other names:	Ethyl selenide Ethane, 1,1'-selenobis- Diethyl monoselenide Diethyl selenium (C ₂ H ₅) ₂ Se Selenide, diethyl- TL 264
Inchi:	InChI=1S/C4H10Se/c1-3-5-4-2/h3-4H2,1-2H3
InchiKey:	ALCDAWARCQFJBA-UHFFFAOYSA-N
Formula:	C ₄ H ₁₀ Se
SMILES:	CC[Se]CC
Mol. weight [g/mol]:	137.08
CAS:	627-53-2

Physical Properties

Property code	Value	Unit	Source
hvap	38.90 ± 1.00	kJ/mol	NIST Webbook
ie	8.30 ± 0.30	eV	NIST Webbook
log10ws	0.97		Crippen Method
logp	1.567		Crippen Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hvapt	39.70	kJ/mol	312.00	NIST Webbook
hvapt	36.80	kJ/mol	303.00	NIST Webbook

Sources

Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci9903071>

Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws

Legend

h_{vap}:	Enthalpy of vaporization at standard conditions
h_{vapt}:	Enthalpy of vaporization at a given temperature
ie:	Ionization energy
log₁₀ws:	Log ₁₀ of Water solubility in mol/l
log_p:	Octanol/Water partition coefficient

Latest version available from:

<https://www.chemeo.com/cid/70-127-3/Diethyl-selenide.pdf>

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