

Silane, triethyl-

Other names:	Triethylsilane (C ₂ H ₅) ₃ SiH Triethylsilicon hydride CT2523
Inchi:	InChI=1S/C6H16Si/c1-4-7(5-2)6-3/h7H,4-6H2,1-3H3
InchiKey:	AQRLNPVMDITEJU-UHFFFAOYSA-N
Formula:	C ₆ H ₁₆ Si
SMILES:	CC[SiH](CC)CC
Mol. weight [g/mol]:	116.28
CAS:	617-86-7

Physical Properties

Property code	Value	Unit	Source
hvap	37.40 ± 0.60	kJ/mol	NIST Webbook
ie	10.00	eV	NIST Webbook
ie	9.90	eV	NIST Webbook
ie	9.50	eV	NIST Webbook
log10ws	0.42		Crippen Method
logp	2.273		Crippen Method
rinpol	744.00		NIST Webbook
rinpol	737.00		NIST Webbook
rinpol	743.70		NIST Webbook
rinpol	743.70		NIST Webbook
rinpol	744.00		NIST Webbook
tb	380.50 ± 0.50	K	NIST Webbook
tb	382.00 ± 2.00	K	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hvapt	33.50	kJ/mol	338.00	NIST Webbook

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C617867&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I
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:	Log10 of Water solubility in mol/l
log_p:	Octanol/Water partition coefficient
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature

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