

Triethylamine borane

Other names:	(C ₂ H ₅) ₃ NBH ₃ Borane-triethylamine complex Borane-triethylamine Triethylamine borane complex Boron, (N,N-diethylethanamine)trihydro-, (T-4)- Borane, complex with triethylamine(1:1) N-Triethyl borazane Triethylamine base borane adduct Triethylamine compound with borane (1:1) Triethylamine-borane 1 to 1 complex Triethylamine, compd. with borane (1:1) Triethylamine, complex with borane (1:1) NSC 59740
Inchi:	InChI=1S/C6H18BN/c1-4-8(7,5-2)6-3/h4-6H2,1-3,7H3
InchiKey:	ONRDAGWFOUZNLV-UHFFFAOYSA-N
Formula:	C ₆ H ₁₈ BN
SMILES:	[BH ₂ -][N+](CC)(CC)CC
Mol. weight [g/mol]:	115.03
CAS:	1722-26-5

Physical Properties

Property code	Value	Unit	Source
log10ws	2.50		Crippen Method
logp	0.411		Crippen Method
sl	301.71	J/molxK	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpl	257.11	J/molxK	298.15	NIST Webbook
cpl	256.90	J/molxK	298.15	NIST Webbook
hfust	14.91	kJ/mol	269.48	NIST Webbook
sfust	55.32	J/molxK	269.48	NIST Webbook

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C1722265&Units=SI

Legend

cpl:	Liquid phase heat capacity
hfust:	Enthalpy of fusion at a given temperature
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
sfust:	Entropy of fusion at a given temperature
sl:	Liquid phase molar entropy at standard conditions

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