

N,N-Diethyl-1,1,1-trimethylsilylamine

Other names:	N,N-Diethylaminotrimethylsilane (CH ₃) ₃ SiN(C ₂ H ₅) ₂ N-Trimethylsilyldiethylamine N,N-Diethyl-trimethylsilylamine Trimethyl-N,N-diethylaminosilane Diethylaminotrimethylsilane Silanamine, N,N-diethyl-1,1,1-trimethyl- CD4450 TMSDEA Trimethylsilyldiethylamine Trimethylsilyl-diethylamin NSC 377650
Inchi:	InChI=1S/C7H19NSi/c1-6-8(7-2)9(3,4)5/h6-7H2,1-5H3
InchiKey:	JOOMLFKONHCLCJ-UHFFFAOYSA-N
Formula:	C ₇ H ₁₉ NSi
SMILES:	CCN(CC)[Si](C)(C)C
Mol. weight [g/mol]:	145.32
CAS:	996-50-9

Physical Properties

Property code	Value	Unit	Source
hvap	37.90 ± 0.80	kJ/mol	NIST Webbook
ie	7.68	eV	NIST Webbook
ie	8.06 ± 0.02	eV	NIST Webbook
log10ws	0.63		Crippen Method
logp	2.163		Crippen Method
rinpol	817.00		NIST Webbook
rinpol	817.00		NIST Webbook
tb	399.50 ± 0.50	K	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
ie:	Ionization energy
log₁₀w_s:	Log ₁₀ of Water solubility in mol/l
log_p:	Octanol/Water partition coefficient
rin_{pol}:	Non-polar retention indices
tb:	Normal Boiling Point Temperature

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