

Azidotrimethylsilane

Other names:	Trimethylsilylazide Silane, azidotrimethyl- (CH ₃) ₃ SiN ₃
Inchi:	InChI=1S/C3H9N3Si/c1-7(2,3)6-5-4/h1-3H3
InchiKey:	SEDZOYHHAIAQIW-UHFFFAOYSA-N
Formula:	C ₃ H ₉ N ₃ Si
SMILES:	C[Si](C)(C)N=[N+]=[N-]
Mol. weight [g/mol]:	115.21
CAS:	4648-54-8

Physical Properties

Property code	Value	Unit	Source
ie	8.69	eV	NIST Webbook
ie	9.70 ± 0.10	eV	NIST Webbook
log10ws	-4.22		Crippen Method
logp	2.132		Crippen Method
tf	178.00	K	NIST Webbook

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	325.50 ± 0.50	K	23.30	NIST Webbook
tbrp	368.00	K	96.00	NIST Webbook
tbrp	325.50 ± 0.50	K	23.30	NIST Webbook

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C4648548&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
tbrp:	Boiling point at reduced pressure
tf:	Normal melting (fusion) point

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