

N-trimethylsilylaniline

Other names:	1,1,1-Trimethyl-N-phenylsilamine 1,1,1-trimethyl-N-phenylsilanamine Aniline, tms derivative Anilino(trimethyl)silane N-(trimethylsilyl)aniline N-Phenyltrimethylsilylamine Silanamine, 1,1,1-trimethyl-N-phenyl- Silylamine, 1,1,1-trimethyl-N-phenyl- phenyl(trimethylsilyl)amine trimethyl(phenylamino)silane trimethyl-N-phenylsilylamine
Inchi:	InChI=1S/C9H15NSi/c1-11(2,3)10-9-7-5-4-6-8-9/h4-8,10H,1-3H3
InchiKey:	IPJPAQIHUIKFLV-UHFFFAOYSA-N
Formula:	C9H15NSi
SMILES:	C[Si](C)(C)Nc1ccccc1
Mol. weight [g/mol]:	165.31

Physical Properties

Property code	Value	Unit	Source
af	0.4156		Cheméo Relay (1.0)
gf	203.58	kJ/mol	Cheméo Relay (1.0, beta)
hf	-80.05	kJ/mol	Cheméo Relay (1.0)
hvap	58.15	kJ/mol	Cheméo Relay (1.0)
ie	8.08	eV	Cheméo Relay (1.0)
log10ws	-2.30		Cheméo Relay (1.0)
logp	2.933		Crippen Method
pc	2765.77	kPa	Cheméo Relay (1.0, beta)
rinpol	1186.00		NIST Webbook
rinpol	1186.00		NIST Webbook
tb	488.27	K	Cheméo Relay (1.0)
tc	707.46	K	Cheméo Relay (1.0)
tf	264.23	K	Cheméo Relay (1.0)

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbp	329.15	K	0.40	Synthesis and characterization of organosilicon compounds as novel precursors for CVD processes

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C3768556&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
Synthesis and characterization of organosilicon compounds as novel precursors for CVD processes:	https://www.doi.org/10.1016/j.tca.2015.02.004

Legend

af:	Acentric Factor
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tbp:	Boiling point at given pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point

Latest version available from:

<https://www.chemeo.com/cid/62-229-9/N-trimethylsilylaniline.pdf>

Generated by Cheméo on 2026-07-29 16:10:11.076916934 +0000 UTC m=+76971.040574400.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.