

Silane, methyldiphenyl-

Other names:	Diphenylmethylsilane Methyldiphenylsilane
Inchi:	InChI=1S/C13H14Si/c1-14(12-8-4-2-5-9-12)13-10-6-3-7-11-13/h2-11,14H,1H3
InchiKey:	FULSRCPEOUATID-UHFFFAOYSA-N
Formula:	C13H14Si
SMILES:	C[SiH](c1ccccc1)c1ccccc1
Mol. weight [g/mol]:	198.34
CAS:	776-76-1

Physical Properties

Property code	Value	Unit	Source
hvap	64.60 ± 0.80	kJ/mol	NIST Webbook
ie	8.75 ± 0.15	eV	NIST Webbook
log10ws	-8.68		Crippen Method
logp	1.658		Crippen Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	366.60	K	0.10	NIST Webbook

Sources

Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C776761&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

h_{vap}:	Enthalpy of vaporization at standard conditions
ie:	Ionization energy
log₁₀ws:	Log ₁₀ of Water solubility in mol/l
log_p:	Octanol/Water partition coefficient
t_{brp}:	Boiling point at reduced pressure

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