

Silane, diphenyl-

Other names:	Diphenylsilane
Inchi:	InChI=1S/C12H12Si/c1-3-7-11(8-4-1)13-12-9-5-2-6-10-12/h1-10H,13H2
InchiKey:	VDCSGNNYCFPWFK-UHFFFAOYSA-N
Formula:	C12H12Si
SMILES:	c1ccc([SiH2]c2ccccc2)cc1
Mol. weight [g/mol]:	184.31
CAS:	775-12-2

Physical Properties

Property code	Value	Unit	Source
ie	8.80	eV	NIST Webbook
ie	9.23 ± 0.05	eV	NIST Webbook
log10ws	-8.04		Crippen Method
logp	0.806		Crippen Method
rinpol	1441.80		NIST Webbook

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	369.00 ± 1.00	K	1.70	NIST Webbook

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C775122&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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
rinpol:	Non-polar retention indices
tbrp:	Boiling point at reduced pressure

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<https://www.chemeo.com/cid/64-775-1/Silane-diphenyl.pdf>

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