Silane, triphenyl-

Other names:	Triphenylsilane
Inchi:	InChI=1S/C18H16Si/c1-4-10-16(11-5-1)19(17-12-6-2-7-13-17)18-14-8-3-9-15-18/h1-15,1
InchiKey:	AKQNYQDSIDKVJZ-UHFFFAOYSA-N
Formula:	C18H16Si
SMILES:	c1ccc([SiH](c2ccccc2)c2ccccc2)cc1
Mol. weight [g/mol]:	260.41
CAS:	789-25-3

Physical Properties

Property code	Value	Unit	Source
ie	8.40	eV	NIST Webbook
ie	8.80 ± 0.15	eV	NIST Webbook
ie	9.13 ± 0.05	eV	NIST Webbook
log10ws	-13.85		Crippen Method
logp	1.935		Crippen Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	435.50 ± 2.50	K	0.40	NIST Webbook

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C789253&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
tbrp:	Boiling point at reduced pressure

Latest version available from:

https://www.chemeo.com/cid/18-728-4/Silane-triphenyl.pdf

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