

Silane, phenyl-

Other names:	Benzene, silyl- Phenylsilane Phenylsilane, silyl- Silylbenzene Fenylsilan
Inchi:	InChI=1S/C6H8Si/c7-6-4-2-1-3-5-6/h1-5H,7H3
InchiKey:	PARWUHTVGZSQPD-UHFFFAOYSA-N
Formula:	C6H8Si
SMILES:	[SiH3]c1ccccc1
Mol. weight [g/mol]:	108.21
CAS:	694-53-1

Physical Properties

Property code	Value	Unit	Source
ie	9.25	eV	NIST Webbook
ie	9.09	eV	NIST Webbook
log10ws	-2.23		Crippen Method
logp	-0.323		Crippen Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hfust	8.40	kJ/mol	201.00	NIST Webbook
hvapt	36.60 ± 0.30	kJ/mol	314.00	NIST Webbook

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C694531&Units=SI

Legend

hfust:	Enthalpy of fusion at a given temperature
hvapt:	Enthalpy of vaporization at a given temperature
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient

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