

Diethynyl-diphenyl-silane

Other names:	Diphenyldiethynylsilane
Inchi:	InChI=1S/C16H12Si/c1-3-17(4-2,15-11-7-5-8-12-15)16-13-9-6-10-14-16/h1-2,5-14H
InchiKey:	GXVUNEVBRUNGTK-UHFFFAOYSA-N
Formula:	C16H12Si
SMILES:	C#C[Si](C#C)(c1ccccc1)c1ccccc1
Mol. weight [g/mol]:	232.35
CAS:	1675-57-6

Physical Properties

Property code	Value	Unit	Source
log10ws	-9.92		Crippen Method
logp	1.594		Crippen Method
ss	345.20	J/molxK	NIST Webbook
ss	357.70	J/molxK	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cps	305.20	J/molxK	298.15	NIST Webbook
cps	312.50	J/molxK	298.15	NIST Webbook
hfust	19.67	kJ/mol	316.24	NIST Webbook
hfust	19.67	kJ/mol	316.20	NIST Webbook

Sources

Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C1675576&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

Legend

cps:	Solid phase heat capacity
hfust:	Enthalpy of fusion at a given temperature
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
ss:	Solid phase molar entropy at standard conditions

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