

Phenyldimethylvinylsilane

Other names:	Dimethyl(phenyl)(vinyl)silane Silane, ethenyldimethylphenyl- Silane, dimethylphenylvinyl- Vinylphenyldimethylsilane Dimethylvinylphenylsilane Ethenyldimethylphenylsilane Vinyl dimethylphenylsilane
Inchi:	InChI=1S/C10H14Si/c1-4-11(2,3)10-8-6-5-7-9-10/h4-9H,1H2,2-3H3
InchiKey:	QDEZCOQKJSRQNN-UHFFFAOYSA-N
Formula:	C10H14Si
SMILES:	C=C[Si](C)(C)c1ccccc1
Mol. weight [g/mol]:	162.30
CAS:	1125-26-4

Physical Properties

Property code	Value	Unit	Source
log10ws	-4.50		Crippen Method
logp	2.327		Crippen Method
sl	374.80	J/molxK	NIST Webbook
sl	374.80	J/molxK	NIST Webbook
sl	376.60	J/molxK	NIST Webbook
tt	190.70 ± 0.02	K	NIST Webbook
tt	190.70 ± 0.02	K	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpl	284.80	J/molxK	298.15	NIST Webbook
cpl	284.80	J/molxK	298.15	NIST Webbook
cpl	285.60	J/molxK	300.00	NIST Webbook
hfust	12.30	kJ/mol	190.70	NIST Webbook
hfust	12.26	kJ/mol	190.70	NIST Webbook
hfust	12.26	kJ/mol	190.70	NIST Webbook
hfust	12.26	kJ/mol	190.70	NIST Webbook

sfust	64.40	J/mol×K	190.70	NIST Webbook
sfust	64.40	J/mol×K	190.70	NIST Webbook
sfust	64.30	J/mol×K	190.70	NIST Webbook

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.cheméo.com/doc/models/crippen_log10ws
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C1125264&Units=SI

Legend

cpl:	Liquid phase heat capacity
hfust:	Enthalpy of fusion at a given temperature
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
sfust:	Entropy of fusion at a given temperature
sl:	Liquid phase molar entropy at standard conditions
tt:	Triple Point Temperature

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