

SILANE, TRIMETHYLOCTYL-

Other names:	Silane, trimethyl octyl
Inchi:	InChI=1S/C11H26Si/c1-5-6-7-8-9-10-11-12(2,3)4/h5-11H2,1-4H3
InchiKey:	OYOGCAUNFUJOMO-UHFFFAOYSA-N
Formula:	C11H26Si
SMILES:	CCCCCCCC[Si](C)(C)C
Mol. weight [g/mol]:	186.42

Physical Properties

Property code	Value	Unit	Source
af	0.4870		Cheméo Relay (1.0)
gf	42.99	kJ/mol	Cheméo Relay (1.0, beta)
hf	-386.18	kJ/mol	Cheméo Relay (1.0)
hvap	48.07	kJ/mol	Cheméo Relay (1.0)
ie	9.33	eV	Cheméo Relay (1.0)
log10ws	-6.06		Cheméo Relay (1.0)
logp	4.685		Crippen Method
pc	1564.82	kPa	Cheméo Relay (1.0, beta)
rinpol	1084.00		NIST Webbook
rinpol	1084.00		NIST Webbook
tb	478.61	K	Cheméo Relay (1.0)
tc	624.40	K	Cheméo Relay (1.0)
tf	221.26	K	Cheméo Relay (1.0)
vc	0.739	m3/kmol	Cheméo Relay (1.0)

Sources

Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C3429763&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

af:	Acentric Factor
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/79-833-0/SILANE-TRIMETHYLOCTYL.pdf>

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