SILANE, TRIMETHYL[(1-METHYLHEXYL)OXY]-

Other names: 2-Heptanol, trimethylsilyl ether
2-Heptanol, tms derivative
Inchi: InChI=1S/C10H24OSi/c1-6-7-8-9-10(2)11-12(3,4)5/h10H,6-9H2,1-5H3
InchiKey: ARLOCEWCOYNVON-UHFFFAOYSA-N
Formula: C10H24OSi
SMILES: CCCCCC(C)O[Si](C)(C)C
Mol. weight [g/mol]: 188.39

Physical Properties

Property code	Value	Unit	Source
af	0.4683		Cheméo Relay (1.0)
gf	-78.39	kJ/mol	Cheméo Relay (1.0, beta)
hf	-502.32	kJ/mol	Cheméo Relay (1.0)
hvap	46.91	kJ/mol	Cheméo Relay (1.0)
ie	9.62	eV	Cheméo Relay (1.0)
log10ws	-2.76		Cheméo Relay (1.0)
logp	3.807		Crippen Method
pc	1703.70	kPa	Cheméo Relay (1.0, beta)
rinpol	1008.90		NIST Webbook
rinpol	1008.90		NIST Webbook
tb	440.77	K	Cheméo Relay (1.0)
tc	581.21	K	Cheméo Relay (1.0)
tf	196.75	K	Cheméo Relay (1.0)
vc	0.697	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=C53690758&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