Silane, trimethoxymethyl-

Other names:	(trimethoxysilyl)methane
	CM9100
	Dynasylan MTMS
	Silane, methyltrimethoxy-
	Union carbide a-163
	Z 6070
	methyltrimethoxysilane
	trimethoxymethylsilane
Inchi:	InChI=1S/C4H12O3Si/c1-5-8(4,6-2)7-3/h1-4H3
InchiKey:	BFXIKLCIZHOAAZ-UHFFFAOYSA-N
Formula:	C4H12O3Si
SMILES:	CO[Si](C)(OC)OC
Mol. weight [g/mol]:	136.22
CAS:	1185-55-3

Physical Properties

Property code	Value	Unit	Source
hvap	34.30 ± 0.60	kJ/mol	NIST Webbook
hvap	34.30 ± 0.30	kJ/mol	NIST Webbook
log10ws	2.03		Crippen Method
logp	0.494		Crippen Method
rinpol	723.00		NIST Webbook
rinpol	626.00		NIST Webbook
rinpol	723.00		NIST Webbook
tb	375.50 ± 0.50	K	NIST Webbook

Sources

Phase behavior of carbon dioxide/trimethoxy(methyl)silane and methylsilicate-51 system:	https://www.doi.org/10.1016/j.fluid.2017.09.006
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C1185553&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature