

Tetrasiloxane, decamethyl-

Other names:	Decamethyltetrasiloxane [(CH ₃) ₃ SiOSi(CH ₃) ₂] ₂ O CD3780 D3780 1,1,1,3,3,5,5,7,7,7-Decamethyltetrasiloxane
Inchi:	InChI=1S/C10H30O3Si4/c1-14(2,3)11-16(7,8)13-17(9,10)12-15(4,5)6/h1-10H3
InchiKey:	YFCGDEUVHLPRCZ-UHFFFAOYSA-N
Formula:	C ₁₀ H ₃₀ O ₃ Si ₄
SMILES:	C[Si](C)(C)O[Si](C)(C)O[Si](C)(C)O[Si](C)(C)C
Mol. weight [g/mol]:	310.69
CAS:	141-62-8

Physical Properties

Property code	Value	Unit	Source
ie	10.24	eV	NIST Webbook
log10ws	5.36		Crippen Method
logp	4.110		Crippen Method
rinpol	1033.00		NIST Webbook
rinpol	1033.00		NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hvapt	48.20	kJ/mol	398.50	NIST Webbook
hvapt	50.30	kJ/mol	422.50	NIST Webbook

Sources

Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C141628&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

Legend

hvapt:	Enthalpy of vaporization at a given temperature
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
rinpola:	Non-polar retention indices

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