

Silane, ethenyldiethoxymethyl-

Other names:	Silane, diethoxymethylvinyl- Vinyl diethoxymethylsilane diethoxy(methyl)(vinyl)silane diethoxymethylvinylsilane ethenyldiethoxymethylsilane methylvinyl diethoxysilane vinylmethyl diethoxysilane
Inchi:	InChI=1S/C7H16O2Si/c1-5-8-10(4,7-3)9-6-2/h7H,3,5-6H2,1-2,4H3
InchiKey:	MBGQQKKTDDNCSG-UHFFFAOYSA-N
Formula:	C7H16O2Si
SMILES:	C=C[Si](C)(OCC)OCC
Mol. weight [g/mol]:	160.29
CAS:	5507-44-8

Physical Properties

Property code	Value	Unit	Source
log10ws	0.50		Crippen Method
logp	1.857		Crippen Method
tb	406.50 ± 0.50	K	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
rhoI	862.21	kg/m3	293.15	Excess molar volume along with refractive index for binary systems of dimethoxymethylphenylsilane with dimethyldimethoxysilane, dimethyldiethoxysilane, methylvinyl diethoxysilane and ethenyltrimethoxysilane

rhoI	856.25	kg/m3	298.15	Excess molar volume along with refractive index for binary systems of dimethoxymethylphenylsilane with dimethyldimethoxysilane, dimethyldiethoxysilane, methylvinyl diethoxysilane and ethenyltrimethoxysilane
rhoI	851.09	kg/m3	303.15	Excess molar volume along with refractive index for binary systems of dimethoxymethylphenylsilane with dimethyldimethoxysilane, dimethyldiethoxysilane, methylvinyl diethoxysilane and ethenyltrimethoxysilane
rhoI	845.89	kg/m3	308.15	Excess molar volume along with refractive index for binary systems of dimethoxymethylphenylsilane with dimethyldimethoxysilane, dimethyldiethoxysilane, methylvinyl diethoxysilane and ethenyltrimethoxysilane
rhoI	840.71	kg/m3	313.15	Excess molar volume along with refractive index for binary systems of dimethoxymethylphenylsilane with dimethyldimethoxysilane, dimethyldiethoxysilane, methylvinyl diethoxysilane and ethenyltrimethoxysilane
rhoI	835.44	kg/m3	318.15	Excess molar volume along with refractive index for binary systems of dimethoxymethylphenylsilane with dimethyldimethoxysilane, dimethyldiethoxysilane, methylvinyl diethoxysilane and ethenyltrimethoxysilane

Sources

Crippen Method:

https://www.chemeo.com/doc/models/crippen_log10ws

Excess molar volume along with refractive index for binary systems of dimethyldimethoxyphenylsilane with dimethyldimethoxysilane, dimethyldimethoxysilane, methylvinyl-diethoxysilane and ethenyltrimethoxysilane:

<https://www.doi.org/10.1016/j.jct.2016.10.033>

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C5507448&Units=SI>

<http://pubs.acs.org/doi/abs/10.1021/ci990307l>

Legend

log10ws: Log10 of Water solubility in mol/l
logp: Octanol/Water partition coefficient
rho: Liquid Density
tb: Normal Boiling Point Temperature

Latest version available from:

<https://www.chemeo.com/cid/52-723-1/Silane-ethenyldiethoxymethyl.pdf>

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