

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

Excess molar volume along with refractive index for binary systems of dimethoxydimethylphenylsilane with dimethyldimethoxysilane, dimethyldiethoxysilane, 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>

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

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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