

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/m ³	293.15	Excess molar volume along with refractive index for binary systems of dimethoxymethylphenylsilane with dimethyldimethoxysilane, dimethyldiethoxysilane, methylvinyl diethoxysilane and ethenyltrimethoxysilane

rho1	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
rho1	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
rho1	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
rho1	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
rho1	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 dimethylphenylsilane 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>

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

Legend

log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
rhoI:	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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