

Trimethoxyvinylsilane

Other names:	(trimethoxysilyl)ethene CV-4917 Dynasylan VTMO Silane, ethenyltrimethoxy- Silane, trimethoxyvinyl- Union Carbide A-171 VTMO ethenyl(trimethoxy)silane trimethoxy(vinyl)silane vinyltrimethoxysilane
Inchi:	InChI=1S/C5H12O3Si/c1-5-9(6-2,7-3)8-4/h5H,1H2,2-4H3
InchiKey:	NKSJNEHGWZZZF-UHFFFAOYSA-N
Formula:	C5H12O3Si
SMILES:	C=C[Si](OC)(OC)OC
Mol. weight [g/mol]:	148.23
CAS:	2768-02-7

Physical Properties

Property code	Value	Unit	Source
log10ws	1.67		Crippen Method
logp	0.590		Crippen Method
tb	396.00	K	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
---------------	-------	------	-----------------	--------

rhoI	965.69	kg/m3	298.15	Excess molar volume along with refractive index for binary systems of dimethoxymethylphenylsilane with dimethyldimethoxysilane, dimethyldiethoxysilane, methylvinyl diethoxysilane and ethenyltrimethoxysilane
rhoI	960.02	kg/m3	303.15	Excess molar volume along with refractive index for binary systems of dimethoxymethylphenylsilane with dimethyldimethoxysilane, dimethyldiethoxysilane, methylvinyl diethoxysilane and ethenyltrimethoxysilane
rhoI	954.26	kg/m3	308.15	Excess molar volume along with refractive index for binary systems of dimethoxymethylphenylsilane with dimethyldimethoxysilane, dimethyldiethoxysilane, methylvinyl diethoxysilane and ethenyltrimethoxysilane
rhoI	948.47	kg/m3	313.15	Excess molar volume along with refractive index for binary systems of dimethoxymethylphenylsilane with dimethyldimethoxysilane, dimethyldiethoxysilane, methylvinyl diethoxysilane and ethenyltrimethoxysilane
rhoI	942.63	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, dimethyldimethoxysilane, methylvinylmethoxysilane and ethenyltrimethoxysilane:

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

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C2768027&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/88-124-7/Trimethoxyvinylsilane.pdf>

Generated by Cheméo on 2024-04-29 10:38:16.689192074 +0000 UTC m=+16676345.609769395.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.