

# Trimethoxyvinylsilane

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

Crippen Method:

<http://pubs.acs.org/doi/abs/10.1021/ci990307I>

Crippen Method:

[https://www.chemeo.com/doc/models/crippen\\_log10ws](https://www.chemeo.com/doc/models/crippen_log10ws)

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=C2768027&Units=SI>

## Legend

**log10ws:** Log10 of Water solubility in mol/l

**logp:** Octanol/Water partition coefficient

**rho:** Liquid Density

**tb:** Normal Boiling Point Temperature

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<https://www.chemeo.com/cid/88-124-7/Trimethoxyvinylsilane.pdf>

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