

# Silane, dimethoxydimethyl-

Other names:	CD5605 Dimethoxydimethylsilane Dimethyldimethoxysilane KBM 22 Silane, dimethyl, dimethoxy
Inchi:	InChI=1S/C4H12O2Si/c1-5-7(3,4)6-2/h1-4H3
InchiKey:	JJQZDUKDJDQPMQ-UHFFFAOYSA-N
Formula:	C4H12O2Si
SMILES:	CO[Si](C)(C)OC
Mol. weight [g/mol]:	120.22
CAS:	1112-39-6

## Physical Properties

Property code	Value	Unit	Source
ie	10.04	eV	NIST Webbook
log10ws	1.70		Crippen Method
logp	0.981		Crippen Method
rinpol	648.00		NIST Webbook
rinpol	649.00		NIST Webbook

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
rhof	857.90	kg/m3	298.15	Excess molar volume along with refractive index for binary systems of dimethoxymethylphenylsilane with dimethyldimethoxysilane, dimethyldiethoxysilane, methylvinyl-diethoxysilane and ethenyltrimethoxysilane

rhoI	852.05	kg/m3	303.15	Excess molar volume along with refractive index for binary systems of dimethoxymethylphenylsilane with dimethyldimethoxysilane, dimethyldiethoxysilane, methylvinyl diethoxysilane and ethenyltrimethoxysilane
rhoI	846.16	kg/m3	308.15	Excess molar volume along with refractive index for binary systems of dimethoxymethylphenylsilane with dimethyldimethoxysilane, dimethyldiethoxysilane, methylvinyl diethoxysilane and ethenyltrimethoxysilane
rhoI	840.22	kg/m3	313.15	Excess molar volume along with refractive index for binary systems of dimethoxymethylphenylsilane with dimethyldimethoxysilane, dimethyldiethoxysilane, methylvinyl diethoxysilane and ethenyltrimethoxysilane
rhoI	834.24	kg/m3	318.15	Excess molar volume along with refractive index for binary systems of dimethoxymethylphenylsilane with dimethyldimethoxysilane, dimethyldiethoxysilane, methylvinyl diethoxysilane and ethenyltrimethoxysilane

## Sources

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C1112396&Units=SI>

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)

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

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

# Legend

<b>ie:</b>	Ionization energy
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>rho:</b>	Liquid Density
<b>rinpol:</b>	Non-polar retention indices

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