

# Silane, dimethoxydimethyl-

<b>Other names:</b>	CD5605 Dimethoxydimethylsilane Dimethyldimethoxysilane KBM 22 Silane, dimethyl, dimethoxy
<b>Inchi:</b>	InChI=1S/C4H12O2Si/c1-5-7(3,4)6-2/h1-4H3
<b>InchiKey:</b>	JJQZDUKDJDQPMQ-UHFFFAOYSA-N
<b>Formula:</b>	C4H12O2Si
<b>SMILES:</b>	CO[Si](C)(C)OC
<b>Mol. weight [g/mol]:</b>	120.22
<b>CAS:</b>	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
rinpola	648.00		NIST Webbook
rinpola	649.00		NIST Webbook

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
rhol	857.90	kg/m <sup>3</sup>	298.15	Excess molar volume along with refractive index for binary systems of dimethoxymethylphenylsilane with dimethyldimethoxysilane, dimethyldiethoxysilane, methylvinyl diethoxysilane and ethenyltrimethoxysilane

rho1	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
rho1	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
rho1	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
rho1	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/ci9903071>

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 dimethoxymethylphenylsilane with dimethyldimethoxysilane, dimethyldiethoxysilane, methylvinyl diethoxysilane and ethenyltrimethoxysilane:

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

# 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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