

# Silane, dimethoxymethylphenyl-

Other names:	(dimethoxymethylsilyl)benzene Dimethoxyphenylmethylsilane Fenyl-dimethoxy-methylsilan dimethoxy(methyl)(phenyl)silane dimethoxymethylphenylsilane methylphenyldimethoxysilane phenylmethyldimethoxysilane
Inchi:	InChI=1S/C9H14O2Si/c1-10-12(3,11-2)9-7-5-4-6-8-9/h4-8H,1-3H3
InchiKey:	CVQVSVBUMVSJES-UHFFFAOYSA-N
Formula:	C9H14O2Si
SMILES:	CO[Si](C)(OC)c1ccccc1
Mol. weight [g/mol]:	182.29
CAS:	3027-21-2

## Physical Properties

Property code	Value	Unit	Source
log10ws	-3.48		Crippen Method
logp	1.258		Crippen Method
tb	472.50 ± 0.50	K	NIST Webbook

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
rhoI	1000.78	kg/m3	298.15	Excess molar volume along with refractive index for binary systems of dimethoxymethylphenylsilane with dimethyldimethoxysilane, dimethyldiethoxysilane, methylvinyl diethoxysilane and ethenyltrimethoxysilane

rhoI	996.13	kg/m3	303.15	Excess molar volume along with refractive index for binary systems of dimethoxymethylphenylsilane with dimethyldimethoxysilane, dimethyldiethoxysilane, methylvinyl diethoxysilane and ethenyltrimethoxysilane
rhoI	991.48	kg/m3	308.15	Excess molar volume along with refractive index for binary systems of dimethoxymethylphenylsilane with dimethyldimethoxysilane, dimethyldiethoxysilane, methylvinyl diethoxysilane and ethenyltrimethoxysilane
rhoI	986.81	kg/m3	313.15	Excess molar volume along with refractive index for binary systems of dimethoxymethylphenylsilane with dimethyldimethoxysilane, dimethyldiethoxysilane, methylvinyl diethoxysilane and ethenyltrimethoxysilane
rhoI	982.15	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:

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

[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>

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C3027212&Units=SI>

<http://pubs.acs.org/doi/abs/10.1021/ci9903071>

# Legend

<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>rho:</b>	Liquid Density
<b>tb:</b>	Normal Boiling Point Temperature

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