

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
rhol	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

rho1	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
rho1	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
rho1	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
rho1	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

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

<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>

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

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