

Tetramethyl silicate

Other names:	Dynasil M Methyl Silicate 39 Methyl orthosilicate Methyl silicate Methyl silicate ((CH ₃) ₄ SiO ₄) Methyl silicate ((MeO) ₄ Si) Methyl silicate 28 NSC 67383 SIT 7510.0 Silane, tetramethoxy- Silicic acid (H ₄ SiO ₄), tetramethyl ester Silicic acid, methyl ester of ortho- Silicic acid, tetramethyl ester TL 190 TMOS TSL 8114 Tetramethoxysilane Tetramethyl orthosilicate Tetramethylsilikat UN 2606 silicon tetramethoxide
Inchi:	InChI=1S/C4H12O4Si/c1-5-9(6-2,7-3)8-4/h1-4H3
InchiKey:	LFQCEHFDDXELDD-UHFFFAOYSA-N
Formula:	C ₄ H ₁₂ O ₄ Si
SMILES:	CO[Si](OC)(OC)OC
Mol. weight [g/mol]:	152.22
CAS:	681-84-5

Physical Properties

Property code	Value	Unit	Source
hvap	41.40 ± 0.70	kJ/mol	NIST Webbook
hvap	41.40 ± 0.20	kJ/mol	NIST Webbook
log10ws	2.36		Crippen Method
logp	0.008		Crippen Method
pc	2890.00	kPa	Vapor-Liquid Critical Properties of Some Tetraalkoxysilanes

rinpol	668.00		NIST Webbook
rinpol	668.20		NIST Webbook
tb	394.50 ± 0.50	K	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpl	240.50	J/mol×K	298.15	NIST Webbook
hvapt	41.00	kJ/mol	351.50	NIST Webbook
hvapt	38.00	kJ/mol	378.50	NIST Webbook
pvap	40.00	kPa	356.15	Saturated Liquid Densities and Vapor Pressures of Tetramethyl Orthosilicate Measured Using a Constant Volume Apparatus
pvap	30.00	kPa	335.15	Saturated Liquid Densities and Vapor Pressures of Tetramethyl Orthosilicate Measured Using a Constant Volume Apparatus
pvap	30.00	kPa	336.15	Saturated Liquid Densities and Vapor Pressures of Tetramethyl Orthosilicate Measured Using a Constant Volume Apparatus
pvap	30.00	kPa	337.15	Saturated Liquid Densities and Vapor Pressures of Tetramethyl Orthosilicate Measured Using a Constant Volume Apparatus
pvap	30.00	kPa	338.15	Saturated Liquid Densities and Vapor Pressures of Tetramethyl Orthosilicate Measured Using a Constant Volume Apparatus

pvap	30.00	kPa	339.15	Saturated Liquid Densities and Vapor Pressures of Tetramethyl Orthosilicate Measured Using a Constant Volume Apparatus
pvap	30.00	kPa	341.15	Saturated Liquid Densities and Vapor Pressures of Tetramethyl Orthosilicate Measured Using a Constant Volume Apparatus
pvap	30.00	kPa	342.15	Saturated Liquid Densities and Vapor Pressures of Tetramethyl Orthosilicate Measured Using a Constant Volume Apparatus
pvap	30.00	kPa	343.15	Saturated Liquid Densities and Vapor Pressures of Tetramethyl Orthosilicate Measured Using a Constant Volume Apparatus
pvap	30.00	kPa	344.15	Saturated Liquid Densities and Vapor Pressures of Tetramethyl Orthosilicate Measured Using a Constant Volume Apparatus
pvap	40.00	kPa	345.15	Saturated Liquid Densities and Vapor Pressures of Tetramethyl Orthosilicate Measured Using a Constant Volume Apparatus
pvap	40.00	kPa	347.15	Saturated Liquid Densities and Vapor Pressures of Tetramethyl Orthosilicate Measured Using a Constant Volume Apparatus

pvap	40.00	kPa	348.15	Saturated Liquid Densities and Vapor Pressures of Tetramethyl Orthosilicate Measured Using a Constant Volume Apparatus
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pvap	40.00	kPa	353.15	Saturated Liquid Densities and Vapor Pressures of Tetramethyl Orthosilicate Measured Using a Constant Volume Apparatus
pvap	40.00	kPa	355.15	Saturated Liquid Densities and Vapor Pressures of Tetramethyl Orthosilicate Measured Using a Constant Volume Apparatus
pvap	30.00	kPa	334.15	Saturated Liquid Densities and Vapor Pressures of Tetramethyl Orthosilicate Measured Using a Constant Volume Apparatus

pvap	50.00	kPa	357.15	Saturated Liquid Densities and Vapor Pressures of Tetramethyl Orthosilicate Measured Using a Constant Volume Apparatus
pvap	50.00	kPa	358.15	Saturated Liquid Densities and Vapor Pressures of Tetramethyl Orthosilicate Measured Using a Constant Volume Apparatus
pvap	50.00	kPa	359.15	Saturated Liquid Densities and Vapor Pressures of Tetramethyl Orthosilicate Measured Using a Constant Volume Apparatus
pvap	50.00	kPa	361.15	Saturated Liquid Densities and Vapor Pressures of Tetramethyl Orthosilicate Measured Using a Constant Volume Apparatus
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pvap	50.00	kPa	364.15	Saturated Liquid Densities and Vapor Pressures of Tetramethyl Orthosilicate Measured Using a Constant Volume Apparatus

pvap	50.00	kPa	365.15	Saturated Liquid Densities and Vapor Pressures of Tetramethyl Orthosilicate Measured Using a Constant Volume Apparatus
pvap	60.00	kPa	366.15	Saturated Liquid Densities and Vapor Pressures of Tetramethyl Orthosilicate Measured Using a Constant Volume Apparatus
pvap	60.00	kPa	368.15	Saturated Liquid Densities and Vapor Pressures of Tetramethyl Orthosilicate Measured Using a Constant Volume Apparatus
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pvap	60.00	kPa	372.15	Saturated Liquid Densities and Vapor Pressures of Tetramethyl Orthosilicate Measured Using a Constant Volume Apparatus

pvap	70.00	kPa	373.10	Saturated Liquid Densities and Vapor Pressures of Tetramethyl Orthosilicate Measured Using a Constant Volume Apparatus
pvap	70.00	kPa	374.15	Saturated Liquid Densities and Vapor Pressures of Tetramethyl Orthosilicate Measured Using a Constant Volume Apparatus
pvap	70.00	kPa	375.15	Saturated Liquid Densities and Vapor Pressures of Tetramethyl Orthosilicate Measured Using a Constant Volume Apparatus
pvap	70.00	kPa	377.15	Saturated Liquid Densities and Vapor Pressures of Tetramethyl Orthosilicate Measured Using a Constant Volume Apparatus
pvap	80.00	kPa	378.15	Saturated Liquid Densities and Vapor Pressures of Tetramethyl Orthosilicate Measured Using a Constant Volume Apparatus
pvap	80.00	kPa	379.15	Saturated Liquid Densities and Vapor Pressures of Tetramethyl Orthosilicate Measured Using a Constant Volume Apparatus
pvap	80.00	kPa	380.15	Saturated Liquid Densities and Vapor Pressures of Tetramethyl Orthosilicate Measured Using a Constant Volume Apparatus

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pvap	90.00	kPa	382.15	Saturated Liquid Densities and Vapor Pressures of Tetramethyl Orthosilicate Measured Using a Constant Volume Apparatus
pvap	90.00	kPa	384.15	Saturated Liquid Densities and Vapor Pressures of Tetramethyl Orthosilicate Measured Using a Constant Volume Apparatus
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pvap	90.00	kPa	386.15	Saturated Liquid Densities and Vapor Pressures of Tetramethyl Orthosilicate Measured Using a Constant Volume Apparatus
pvap	100.00	kPa	387.15	Saturated Liquid Densities and Vapor Pressures of Tetramethyl Orthosilicate Measured Using a Constant Volume Apparatus
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pvap	100.00	kPa	390.15	Saturated Liquid Densities and Vapor Pressures of Tetramethyl Orthosilicate Measured Using a Constant Volume Apparatus
pvap	110.00	kPa	391.15	Saturated Liquid Densities and Vapor Pressures of Tetramethyl Orthosilicate Measured Using a Constant Volume Apparatus
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pvap	120.00	kPa	394.15	Saturated Liquid Densities and Vapor Pressures of Tetramethyl Orthosilicate Measured Using a Constant Volume Apparatus
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pvap	130.00	kPa	397.15	Saturated Liquid Densities and Vapor Pressures of Tetramethyl Orthosilicate Measured Using a Constant Volume Apparatus

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pvap	160.00	kPa	405.15	Saturated Liquid Densities and Vapor Pressures of Tetramethyl Orthosilicate Measured Using a Constant Volume Apparatus

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pvap	230.00	kPa	420.15	Saturated Liquid Densities and Vapor Pressures of Tetramethyl Orthosilicate Measured Using a Constant Volume Apparatus
pvap	230.00	kPa	421.15	Saturated Liquid Densities and Vapor Pressures of Tetramethyl Orthosilicate Measured Using a Constant Volume Apparatus

pvap	240.00	kPa	422.15	Saturated Liquid Densities and Vapor Pressures of Tetramethyl Orthosilicate Measured Using a Constant Volume Apparatus
pvap	250.00	kPa	424.15	Saturated Liquid Densities and Vapor Pressures of Tetramethyl Orthosilicate Measured Using a Constant Volume Apparatus
pvap	260.00	kPa	425.15	Saturated Liquid Densities and Vapor Pressures of Tetramethyl Orthosilicate Measured Using a Constant Volume Apparatus
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pvap	280.00	kPa	428.15	Saturated Liquid Densities and Vapor Pressures of Tetramethyl Orthosilicate Measured Using a Constant Volume Apparatus
pvap	280.00	kPa	429.15	Saturated Liquid Densities and Vapor Pressures of Tetramethyl Orthosilicate Measured Using a Constant Volume Apparatus

pvap	290.00	kPa	430.15	Saturated Liquid Densities and Vapor Pressures of Tetramethyl Orthosilicate Measured Using a Constant Volume Apparatus
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pvap	410.00	kPa	448.15	Saturated Liquid Densities and Vapor Pressures of Tetramethyl Orthosilicate Measured Using a Constant Volume Apparatus
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pvap	440.00	kPa	451.15	Saturated Liquid Densities and Vapor Pressures of Tetramethyl Orthosilicate Measured Using a Constant Volume Apparatus
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pvap	460.00	kPa	453.15	Saturated Liquid Densities and Vapor Pressures of Tetramethyl Orthosilicate Measured Using a Constant Volume Apparatus

pvap	470.00	kPa	454.15	Saturated Liquid Densities and Vapor Pressures of Tetramethyl Orthosilicate Measured Using a Constant Volume Apparatus
pvap	480.00	kPa	456.15	Saturated Liquid Densities and Vapor Pressures of Tetramethyl Orthosilicate Measured Using a Constant Volume Apparatus
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pvap	810.00	kPa	483.15	Saturated Liquid Densities and Vapor Pressures of Tetramethyl Orthosilicate Measured Using a Constant Volume Apparatus
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pvap	890.00	kPa	489.15	Saturated Liquid Densities and Vapor Pressures of Tetramethyl Orthosilicate Measured Using a Constant Volume Apparatus
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pvap	1070.00	kPa	500.15	Saturated Liquid Densities and Vapor Pressures of Tetramethyl Orthosilicate Measured Using a Constant Volume Apparatus

pvap	1090.00	kPa	501.15	Saturated Liquid Densities and Vapor Pressures of Tetramethyl Orthosilicate Measured Using a Constant Volume Apparatus
pvap	1110.00	kPa	502.15	Saturated Liquid Densities and Vapor Pressures of Tetramethyl Orthosilicate Measured Using a Constant Volume Apparatus
pvap	1130.00	kPa	503.15	Saturated Liquid Densities and Vapor Pressures of Tetramethyl Orthosilicate Measured Using a Constant Volume Apparatus
pvap	1150.00	kPa	504.15	Saturated Liquid Densities and Vapor Pressures of Tetramethyl Orthosilicate Measured Using a Constant Volume Apparatus
pvap	1160.00	kPa	505.15	Saturated Liquid Densities and Vapor Pressures of Tetramethyl Orthosilicate Measured Using a Constant Volume Apparatus
pvap	1180.00	kPa	506.15	Saturated Liquid Densities and Vapor Pressures of Tetramethyl Orthosilicate Measured Using a Constant Volume Apparatus
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pvap	1250.00	kPa	509.15	Saturated Liquid Densities and Vapor Pressures of Tetramethyl Orthosilicate Measured Using a Constant Volume Apparatus
pvap	1270.00	kPa	510.15	Saturated Liquid Densities and Vapor Pressures of Tetramethyl Orthosilicate Measured Using a Constant Volume Apparatus
pvap	1280.00	kPa	512.15	Saturated Liquid Densities and Vapor Pressures of Tetramethyl Orthosilicate Measured Using a Constant Volume Apparatus
pvap	1300.00	kPa	513.15	Saturated Liquid Densities and Vapor Pressures of Tetramethyl Orthosilicate Measured Using a Constant Volume Apparatus
pvap	1320.00	kPa	514.15	Saturated Liquid Densities and Vapor Pressures of Tetramethyl Orthosilicate Measured Using a Constant Volume Apparatus
pvap	1340.00	kPa	514.15	Saturated Liquid Densities and Vapor Pressures of Tetramethyl Orthosilicate Measured Using a Constant Volume Apparatus

pvap	1360.00	kPa	516.15	Saturated Liquid Densities and Vapor Pressures of Tetramethyl Orthosilicate Measured Using a Constant Volume Apparatus
pvap	1380.00	kPa	517.15	Saturated Liquid Densities and Vapor Pressures of Tetramethyl Orthosilicate Measured Using a Constant Volume Apparatus
pvap	1400.00	kPa	518.15	Saturated Liquid Densities and Vapor Pressures of Tetramethyl Orthosilicate Measured Using a Constant Volume Apparatus
pvap	1420.00	kPa	519.15	Saturated Liquid Densities and Vapor Pressures of Tetramethyl Orthosilicate Measured Using a Constant Volume Apparatus
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Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.72264e+01
Coeff. B	-5.01316e+03
Coeff. C	3.46400e+00
Temperature range (K), min.	287.55
Temperature range (K), max.	417.28

Sources

Phase behavior for carbon dioxide/tetraalkoxysilane systems: Saturated Liquid Densities and Vapor Pressures of Tetramethyl Orthosilicate Measured Using a Corbett Resonance Volume	https://www.doi.org/10.1016/j.fluid.2012.02.018
Some Tetraalkoxysilanes: NIST Webbook:	https://www.doi.org/10.1021/je700443d
The Yaws Handbook of Vapor Pressure: Crippen Method:	https://www.doi.org/10.1021/je800086s
Crippen Method:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C681845&Units=SI
	https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure
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	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

cpl:	Liquid phase heat capacity
hvac:	Enthalpy of vaporization at standard conditions
hvapt:	Enthalpy of vaporization at a given temperature
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
pc:	Critical Pressure
pvap:	Vapor pressure
rinpola:	Non-polar retention indices
tb:	Normal Boiling Point Temperature

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