

# 3,4,5-Trimethoxy-tetrahydro-pyran

<b>Inchi:</b>	InChI=1S/C8H16O4/c1-9-6-4-12-5-7(10-2)8(6)11-3/h6-8H,4-5H2,1-3H3
<b>InchiKey:</b>	DKQVTQIPWUFZRF-UHFFFAOYSA-N
<b>Formula:</b>	C8H16O4
<b>SMILES:</b>	COC1COCC(OC)C1OC
<b>Mol. weight [g/mol]:</b>	176.21

## Physical Properties

Property code	Value	Unit	Source
gf	-375.61	kJ/mol	Joback Method
hf	-723.47	kJ/mol	Joback Method
hfus	22.00	kJ/mol	Joback Method
hvap	44.95	kJ/mol	Joback Method
log10ws	0.25		Crippen Method
logp	0.062		Crippen Method
mcvol	136.200	ml/mol	McGowan Method
pc	2749.78	kPa	Joback Method
rinpol	1136.43		NIST Webbook
rinpol	1136.43		NIST Webbook
tb	486.86	K	Joback Method
tc	683.58	K	Joback Method
tf	272.08	K	Joback Method
vc	0.489	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	323.57	J/mol×K	486.86	Joback Method
cpg	340.03	J/mol×K	519.65	Joback Method
cpg	355.96	J/mol×K	552.43	Joback Method
cpg	371.34	J/mol×K	585.22	Joback Method
cpg	386.13	J/mol×K	618.01	Joback Method
cpg	400.30	J/mol×K	650.80	Joback Method
cpg	413.82	J/mol×K	683.58	Joback Method
dvisc	0.0016357	Paxs	272.08	Joback Method

dvisc	0.0009442	Paxs	307.88	Joback Method
dvisc	0.0006112	Paxs	343.67	Joback Method
dvisc	0.0004294	Paxs	379.47	Joback Method
dvisc	0.0003207	Paxs	415.27	Joback Method
dvisc	0.0002508	Paxs	451.06	Joback Method
dvisc	0.0002034	Paxs	486.86	Joback Method

## Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R268094&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R268094&amp;Units=SI</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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