

# 2H-Pyran, tetrahydro-2-methoxy-

<b>Other names:</b>	2-Methoxytetrahydropyran tetrahydro-2-methoxy-2H-pyran
<b>Inchi:</b>	InChI=1S/C6H12O2/c1-7-6-4-2-3-5-8-6/h6H,2-5H2,1H3
<b>InchiKey:</b>	XTDKZSUYCXXHJM-UHFFFAOYSA-N
<b>Formula:</b>	C6H12O2
<b>SMILES:</b>	COC1CCCCO1
<b>Mol. weight [g/mol]:</b>	116.16
<b>CAS:</b>	6581-66-4

## Physical Properties

Property code	Value	Unit	Source
chl	-3633.80 ± 1.30	kJ/mol	NIST Webbook
gf	-167.03	kJ/mol	Joback Method
hf	-377.07	kJ/mol	Joback Method
hfus	12.30	kJ/mol	Joback Method
hvap	39.30 ± 1.20	kJ/mol	NIST Webbook
log10ws	-1.01		Crippen Method
logp	1.159		Crippen Method
mcvol	96.280	ml/mol	McGowan Method
pc	3834.03	kPa	Joback Method
rinpol	870.00		NIST Webbook
rinpol	870.00		NIST Webbook
rinpol	890.00		NIST Webbook
sg	367.40	J/mol×K	NIST Webbook
tb	401.70	K	NIST Webbook
tc	609.91	K	Joback Method
tf	213.56	K	Joback Method
vc	0.344	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	263.92	J/mol×K	609.91	Joback Method
cpg	187.93	J/mol×K	405.60	Joback Method

cpg	202.04	J/molxK	439.65	Joback Method
cpg	215.57	J/molxK	473.70	Joback Method
cpg	228.52	J/molxK	507.75	Joback Method
cpg	240.90	J/molxK	541.81	Joback Method
cpg	252.69	J/molxK	575.86	Joback Method
dvisc	0.0002972	Paxs	405.60	Joback Method
dvisc	0.0059104	Paxs	213.56	Joback Method
dvisc	0.0025951	Paxs	245.57	Joback Method
dvisc	0.0013776	Paxs	277.57	Joback Method
dvisc	0.0008336	Paxs	309.58	Joback Method
dvisc	0.0005542	Paxs	341.59	Joback Method
dvisc	0.0003952	Paxs	373.59	Joback Method
hvapt	42.70	kJ/mol	293.00	NIST Webbook

## Sources

<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=C6581664&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C6581664&amp;Units=SI</a>
<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>

## Legend

<b>chl:</b>	Standard liquid enthalpy of combustion
<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>hvapt:</b>	Enthalpy of vaporization at a given temperature
<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>sg:</b>	Molar entropy at standard conditions

**tb:** Normal Boiling Point Temperature  
**tc:** Critical Temperature  
**tf:** Normal melting (fusion) point  
**vc:** Critical Volume

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