

# Cyclohexanol, 2-methoxy-, (1R,2R)-rel-

<b>Other names:</b>	Cyclohexanol,2-methoxy-,trans-
<b>Inchi:</b>	InChI=1S/C7H14O2/c1-9-7-5-3-2-4-6(7)8/h6-8H,2-5H2,1H3/t6-,7-/m0/s1
<b>InchiKey:</b>	DCQQZLGQRIVCNH-BQBZGAKWSA-N
<b>Formula:</b>	C7H14O2
<b>SMILES:</b>	COC1CCCCC1O
<b>Mol. weight [g/mol]:</b>	130.18
<b>CAS:</b>	7429-40-5

## Physical Properties

Property code	Value	Unit	Source
gf	-217.02	kJ/mol	Joback Method
hf	-438.28	kJ/mol	Joback Method
hfus	12.07	kJ/mol	Joback Method
hvap	50.39	kJ/mol	Joback Method
ie	9.69	eV	NIST Webbook
log10ws	-1.22		Crippen Method
logp	0.936		Crippen Method
mcvol	110.370	ml/mol	McGowan Method
pc	3704.46	kPa	Joback Method
tb	489.04	K	Joback Method
tc	680.38	K	Joback Method
tf	254.84	K	Joback Method
vc	0.397	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	255.97	J/molxK	489.04	Joback Method
cpg	269.90	J/molxK	520.93	Joback Method
cpg	283.24	J/molxK	552.82	Joback Method
cpg	295.99	J/molxK	584.71	Joback Method
cpg	308.16	J/molxK	616.60	Joback Method
cpg	319.75	J/molxK	648.49	Joback Method
cpg	330.76	J/molxK	680.38	Joback Method

dvisc	0.0263065	Paxs	254.84	Joback Method
dvisc	0.0064812	Paxs	293.87	Joback Method
dvisc	0.0022178	Paxs	332.91	Joback Method
dvisc	0.0009505	Paxs	371.94	Joback Method
dvisc	0.0004785	Paxs	410.97	Joback Method
dvisc	0.0002713	Paxs	450.01	Joback Method
dvisc	0.0001684	Paxs	489.04	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C7429405&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C7429405&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>
<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>

## 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>ie:</b>	Ionization energy
<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>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/59-198-8/Cyclohexanol-2-methoxy-1R-2R-rel.pdf>

Generated by Cheméo on 2024-04-24 07:46:40.65848962 +0000 UTC m=+16234049.579066942.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.