

# Cyclohexane, 1,2-dimethoxy-, cis-

<b>Other names:</b>	cis-1,2-Dimethoxycyclohexane (Z)-1,2-Dimethoxycyclohexane
<b>Inchi:</b>	InChI=1S/C8H16O2/c1-9-7-5-3-4-6-8(7)10-2/h7-8H,3-6H2,1-2H3/t7-,8+
<b>InchiKey:</b>	BSGBGTJQKZSUTQ-OCAPTIKFSA-N
<b>Formula:</b>	C8H16O2
<b>SMILES:</b>	COC1CCCCC1OC
<b>Mol. weight [g/mol]:</b>	144.21
<b>CAS:</b>	30363-80-5

## Physical Properties

Property code	Value	Unit	Source
gf	-176.78	kJ/mol	Joback Method
hf	-438.91	kJ/mol	Joback Method
hfus	11.76	kJ/mol	Joback Method
hvap	38.34	kJ/mol	Joback Method
ie	8.60	eV	NIST Webbook
ie	9.24	eV	NIST Webbook
log10ws	-1.46		Crippen Method
logp	1.590		Crippen Method
mcvol	124.460	ml/mol	McGowan Method
pc	2928.17	kPa	Joback Method
tb	442.16	K	Joback Method
tc	640.94	K	Joback Method
tf	227.52	K	Joback Method
vc	0.452	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	265.22	J/molxK	442.16	Joback Method
cpg	282.04	J/molxK	475.29	Joback Method
cpg	298.26	J/molxK	508.42	Joback Method
cpg	313.85	J/molxK	541.55	Joback Method
cpg	328.82	J/molxK	574.68	Joback Method

cpg	343.15	J/molxK	607.81	Joback Method
cpg	356.83	J/molxK	640.94	Joback Method
dvisc	0.0026727	Paxs	227.52	Joback Method
dvisc	0.0013175	Paxs	263.29	Joback Method
dvisc	0.0007692	Paxs	299.07	Joback Method
dvisc	0.0005038	Paxs	334.84	Joback Method
dvisc	0.0003581	Paxs	370.61	Joback Method
dvisc	0.0002703	Paxs	406.39	Joback Method
dvisc	0.0002135	Paxs	442.16	Joback Method

## Sources

<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=C30363805&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C30363805&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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

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