

# cis 1,2-Dimethoxyethylene

Inchi:	InChI=1S/C4H8O2/c1-5-3-4-6-2/h3-4H,1-2H3/b4-3-
InchiKey:	SJQBHNHASPQACB-ARJAWSKDSA-N
Formula:	C4H8O2
SMILES:	COC=COC
Mol. weight [g/mol]:	88.11
CAS:	7062-96-6

## Physical Properties

Property code	Value	Unit	Source
gf	-146.98	kJ/mol	Joback Method
hf	-273.11	kJ/mol	Joback Method
hfus	8.69	kJ/mol	Joback Method
hvap	29.28	kJ/mol	Joback Method
log10ws	-0.52		Crippen Method
logp	0.750		Crippen Method
mcvol	74.660	ml/mol	McGowan Method
pc	3985.56	kPa	Joback Method
tb	339.92	K	Joback Method
tc	514.36	K	Joback Method
tf	174.22	K	Joback Method
vc	0.276	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	122.94	J/molxK	339.92	Joback Method
cpg	129.58	J/molxK	368.99	Joback Method
cpg	136.07	J/molxK	398.07	Joback Method
cpg	142.42	J/molxK	427.14	Joback Method
cpg	148.62	J/molxK	456.21	Joback Method
cpg	154.67	J/molxK	485.29	Joback Method
cpg	160.55	J/molxK	514.36	Joback Method
dvisc	0.0020122	Paxs	174.22	Joback Method
dvisc	0.0009866	Paxs	201.84	Joback Method

dvisc	0.0005743	Paxs	229.45	Joback Method
dvisc	0.0003755	Paxs	257.07	Joback Method
dvisc	0.0002666	Paxs	284.69	Joback Method
dvisc	0.0002011	Paxs	312.30	Joback Method
dvisc	0.0001588	Paxs	339.92	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=C7062966&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C7062966&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>

## 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>mccvol:</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/27-002-9/cis-1-2-Dimethoxyethylene.pdf>

Generated by Cheméo on 2024-07-18 03:42:24.870851968 +0000 UTC m=+500360.066822329.

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