

# Isobutyl (2-methoxyethyl) carbonate

<b>Inchi:</b>	InChI=1S/C8H16O4/c1-7(2)6-12-8(9)11-5-4-10-3/h7H,4-6H2,1-3H3
<b>InchiKey:</b>	OWZMVPOOMCGUHH-UHFFFAOYSA-N
<b>Formula:</b>	C8H16O4
<b>SMILES:</b>	COCCOC(=O)OCC(C)C
<b>Mol. weight [g/mol]:</b>	176.21

## Physical Properties

Property code	Value	Unit	Source
gf	-429.88	kJ/mol	Joback Method
hf	-722.97	kJ/mol	Joback Method
hfus	18.12	kJ/mol	Joback Method
hvap	46.99	kJ/mol	Joback Method
log10ws	-0.94		Crippen Method
logp	1.442		Crippen Method
mcvol	142.760	ml/mol	McGowan Method
pc	2587.22	kPa	Joback Method
rinqol	1154.00		NIST Webbook
tb	503.13	K	Joback Method
tc	680.70	K	Joback Method
tf	281.54	K	Joback Method
vc	0.537	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	328.22	J/molxK	503.13	Joback Method
cpg	340.49	J/molxK	532.73	Joback Method
cpg	352.40	J/molxK	562.32	Joback Method
cpg	363.94	J/molxK	591.92	Joback Method
cpg	375.08	J/molxK	621.51	Joback Method
cpg	385.82	J/molxK	651.11	Joback Method
cpg	396.14	J/molxK	680.70	Joback Method
dvisc	0.0024361	Paxs	281.54	Joback Method
dvisc	0.0012025	Paxs	318.47	Joback Method

dvisc	0.0006874	Paxs	355.40	Joback Method
dvisc	0.0004366	Paxs	392.34	Joback Method
dvisc	0.0002998	Paxs	429.27	Joback Method
dvisc	0.0002185	Paxs	466.20	Joback Method
dvisc	0.0001668	Paxs	503.13	Joback Method

## Sources

<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=U378283&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U378283&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>

## 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>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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