

# 2-Butanol, 3-methoxy-

<b>Other names:</b>	3-Methoxybutan-2-ol 3-methoxy-2-butanol
<b>Inchi:</b>	InChI=1S/C5H12O2/c1-4(6)5(2)7-3/h4-6H,1-3H3
<b>InchiKey:</b>	HJHFJCUIVDTESF-UHFFFAOYSA-N
<b>Formula:</b>	C5H12O2
<b>SMILES:</b>	COC(C)C(C)O
<b>Mol. weight [g/mol]:</b>	104.15
<b>CAS:</b>	53778-72-6

## Physical Properties

Property code	Value	Unit	Source
gf	-255.48	kJ/mol	Joback Method
hf	-441.54	kJ/mol	Joback Method
hfus	6.94	kJ/mol	Joback Method
hvap	45.04	kJ/mol	Joback Method
log10ws	-0.49		Crippen Method
logp	0.402		Crippen Method
mvol	93.050	ml/mol	McGowan Method
pc	3872.29	kPa	Joback Method
ripol	1903.00		NIST Webbook
ripol	1910.00		NIST Webbook
tb	427.52	K	Joback Method
tc	596.57	K	Joback Method
tf	199.16	K	Joback Method
vc	0.341	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	191.43	J/molxK	427.52	Joback Method
cpg	232.27	J/molxK	568.39	Joback Method
cpg	224.64	J/molxK	540.22	Joback Method
cpg	216.75	J/molxK	512.04	Joback Method
cpg	208.58	J/molxK	483.87	Joback Method

cpg	200.14	J/mol×K	455.69	Joback Method
cpg	239.62	J/mol×K	596.57	Joback Method
dvisc	0.0002097	Paxs	427.52	Joback Method
dvisc	0.0003885	Paxs	389.46	Joback Method
dvisc	0.0008229	Paxs	351.40	Joback Method
dvisc	0.0020914	Paxs	313.34	Joback Method
dvisc	0.0068795	Paxs	275.28	Joback Method
dvisc	0.0331601	Paxs	237.22	Joback Method
dvisc	0.2915719	Paxs	199.16	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C53778726&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C53778726&amp;Units=SI</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>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>ripol:</b>	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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