

# Naphthalene, 2-(methoxymethyl)-

<b>Inchi:</b>	InChI=1S/C12H12O/c1-13-9-10-6-7-11-4-2-3-5-12(11)8-10/h2-8H,9H2,1H3
<b>InchiKey:</b>	BFGPGMDXLDALBO-UHFFFAOYSA-N
<b>Formula:</b>	C12H12O
<b>SMILES:</b>	COCc1ccc2ccccc2c1
<b>Mol. weight [g/mol]:</b>	172.22
<b>CAS:</b>	42101-92-8

## Physical Properties

Property code	Value	Unit	Source
gf	154.59	kJ/mol	Joback Method
hf	-7.10	kJ/mol	Joback Method
hfus	18.70	kJ/mol	Joback Method
hvap	49.29	kJ/mol	Joback Method
log10ws	-3.66		Crippen Method
logp	2.986		Crippen Method
mvol	142.590	ml/mol	McGowan Method
pc	2999.15	kPa	Joback Method
tb	547.02	K	Joback Method
tc	774.47	K	Joback Method
tf	318.87	K	Joback Method
vc	0.539	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	320.58	J/molxK	547.02	Joback Method
cpg	335.37	J/molxK	584.93	Joback Method
cpg	349.19	J/molxK	622.84	Joback Method
cpg	362.08	J/molxK	660.74	Joback Method
cpg	374.10	J/molxK	698.65	Joback Method
cpg	385.29	J/molxK	736.56	Joback Method
cpg	395.71	J/molxK	774.47	Joback Method
dvisc	0.0013276	Paxs	318.87	Joback Method
dvisc	0.0008752	Paxs	356.89	Joback Method

dvisc	0.0006252	Paxs	394.92	Joback Method
dvisc	0.0004738	Paxs	432.94	Joback Method
dvisc	0.0003755	Paxs	470.97	Joback Method
dvisc	0.0003081	Paxs	509.00	Joback Method
dvisc	0.0002598	Paxs	547.02	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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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=C42101928&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C42101928&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>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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