

2-Propanol, 1-methoxy-2-methyl-

Other names:	1,1-Dimethyl-2-methoxyethanol
Inchi:	InChI=1S/C5H12O2/c1-5(2,6)4-7-3/h6H,4H2,1-3H3
InchiKey:	MXUXZWFVAPTPAG-UHFFFAOYSA-N
Formula:	C5H12O2
SMILES:	COCC(C)(C)O
Mol. weight [g/mol]:	104.15
CAS:	3587-64-2

Physical Properties

Property code	Value	Unit	Source
gf	-247.76	kJ/mol	Joback Method
hf	-439.73	kJ/mol	Joback Method
hfus	6.57	kJ/mol	Joback Method
hvap	44.52	kJ/mol	Joback Method
log10ws	-0.38		Crippen Method
logp	0.404		Crippen Method
mcvol	93.050	ml/mol	McGowan Method
pc	3886.79	kPa	Joback Method
tb	425.17	K	Joback Method
tc	597.13	K	Joback Method
tf	231.58	K	Joback Method
vc	0.342	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	193.76	J/molxK	425.17	Joback Method
cpg	235.93	J/molxK	568.47	Joback Method
cpg	228.23	J/molxK	539.81	Joback Method
cpg	220.17	J/molxK	511.15	Joback Method
cpg	211.75	J/molxK	482.49	Joback Method
cpg	202.95	J/molxK	453.83	Joback Method
cpg	243.28	J/molxK	597.13	Joback Method
dvisc	0.0002452	Paxs	425.17	Joback Method

dvisc	0.0004263	Paxs	392.90	Joback Method
dvisc	0.0008183	Paxs	360.64	Joback Method
dvisc	0.0017854	Paxs	328.38	Joback Method
dvisc	0.0046174	Paxs	296.11	Joback Method
dvisc	0.0150652	Paxs	263.85	Joback Method
dvisc	0.0683378	Paxs	231.58	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C3587642&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/88-121-0/2-Propanol-1-methoxy-2-methyl.pdf>

Generated by Cheméo on 2024-04-19 19:45:49.714685574 +0000 UTC m=+15845198.635262887.

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