

2-Propanol, 1-(2-methoxy-1-methylethoxy)-

Other names:	1-(2-Methoxy-1-methylethoxy)-2-propanol 34590-94-8 1-(2-methoxy-1-methylethoxy)propan-2-ol
Inchi:	InChI=1S/C7H16O3/c1-6(8)4-10-7(2)5-9-3/h6-8H,4-5H2,1-3H3
InchiKey:	WGYZMNBUZFH YRX-UHFFFAOYSA-N
Formula:	C7H16O3
SMILES:	COCC(C)OCC(C)O
Mol. weight [g/mol]:	148.20
CAS:	20324-32-7

Physical Properties

Property code	Value	Unit	Source
gf	-343.64	kJ/mol	Joback Method
hf	-615.04	kJ/mol	Joback Method
hfus	13.30	kJ/mol	Joback Method
hvap	51.90	kJ/mol	Joback Method
log10ws	-0.41		Crippen Method
logp	0.419		Crippen Method
mcvol	127.100	ml/mol	McGowan Method
pc	3032.27	kPa	Joback Method
ripol	981.00		NIST Webbook
ripol	1478.00		NIST Webbook
tb	495.70	K	Joback Method
tc	662.51	K	Joback Method
tf	243.93	K	Joback Method
vc	0.470	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	295.34	J/molxK	495.70	Joback Method
cpg	306.21	J/molxK	523.50	Joback Method
cpg	316.74	J/molxK	551.30	Joback Method
cpg	326.93	J/molxK	579.11	Joback Method

cpg	336.78	J/molxK	606.91	Joback Method
cpg	346.28	J/molxK	634.71	Joback Method
cpg	355.43	J/molxK	662.51	Joback Method
dvisc	0.0562449	Paxs	243.93	Joback Method
dvisc	0.0091999	Paxs	285.89	Joback Method
dvisc	0.0023920	Paxs	327.85	Joback Method
dvisc	0.0008443	Paxs	369.81	Joback Method
dvisc	0.0003685	Paxs	411.78	Joback Method
dvisc	0.0001875	Paxs	453.74	Joback Method
dvisc	0.0001069	Paxs	495.70	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C20324327&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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