

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

Other names:	2-Propanol, 1-isopropoxy- 1-Isopropoxy-2-propanol 1-isopropoxypropan-2-ol
Inchi:	InChI=1S/C6H14O2/c1-5(2)8-4-6(3)7/h5-7H,4H2,1-3H3
InchiKey:	AFHJYKBGDDJSRR-UHFFFAOYSA-N
Formula:	C6H14O2
SMILES:	CC(O)COC(C)C
Mol. weight [g/mol]:	118.17
CAS:	3944-36-3

Physical Properties

Property code	Value	Unit	Source
gf	-247.06	kJ/mol	Joback Method
hf	-462.18	kJ/mol	Joback Method
hfus	9.53	kJ/mol	Joback Method
hvap	47.26	kJ/mol	Joback Method
log10ws	-0.91		Crippen Method
logp	0.792		Crippen Method
mcvol	107.140	ml/mol	McGowan Method
pc	3448.03	kPa	Joback Method
rinpol	814.00		NIST Webbook
rinpol	814.00		NIST Webbook
tb	450.40	K	Joback Method
tc	618.48	K	Joback Method
tf	210.43	K	Joback Method
vc	0.397	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	230.45	J/mol×K	450.40	Joback Method
cpg	240.36	J/mol×K	478.41	Joback Method
cpg	249.93	J/mol×K	506.43	Joback Method
cpg	259.19	J/mol×K	534.44	Joback Method

cpg	268.11	J/mol×K	562.45	Joback Method
cpg	276.72	J/mol×K	590.46	Joback Method
cpg	285.01	J/mol×K	618.48	Joback Method
dvisc	0.2052897	Pa×s	210.43	Joback Method
dvisc	0.0246519	Pa×s	250.43	Joback Method
dvisc	0.0053072	Pa×s	290.42	Joback Method
dvisc	0.0016571	Pa×s	330.41	Joback Method
dvisc	0.0006653	Pa×s	370.41	Joback Method
dvisc	0.0003191	Pa×s	410.40	Joback Method
dvisc	0.0001744	Pa×s	450.40	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=C3944363&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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