

2-(2-Isobutoxyethoxy)ethanol

Other names:	2-[2-(2-methylpropoxy)ethoxy]ethanol
Inchi:	InChI=1S/C8H18O3/c1-8(2)7-11-6-5-10-4-3-9/h8-9H,3-7H2,1-2H3
InchiKey:	YJTIFIMHZHDNQZ-UHFFFAOYSA-N
Formula:	C8H18O3
SMILES:	CC(C)COCCOCCO
Mol. weight [g/mol]:	162.23
CAS:	18912-80-6

Physical Properties

Property code	Value	Unit	Source
gf	-332.78	kJ/mol	Joback Method
hf	-630.40	kJ/mol	Joback Method
hfus	19.42	kJ/mol	Joback Method
hvap	54.51	kJ/mol	Joback Method
log10ws	-0.37		Crippen Method
logp	0.668		Crippen Method
mcvol	141.190	ml/mol	McGowan Method
pc	2712.67	kPa	Joback Method
rinpol	1220.10		NIST Webbook
rinpol	1220.10		NIST Webbook
tb	519.02	K	Joback Method
tc	681.80	K	Joback Method
tf	270.20	K	Joback Method
vc	0.532	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	339.43	J/mol×K	519.02	Joback Method
cpg	350.98	J/mol×K	546.15	Joback Method
cpg	362.17	J/mol×K	573.28	Joback Method
cpg	372.99	J/mol×K	600.41	Joback Method
cpg	383.44	J/mol×K	627.54	Joback Method
cpg	393.51	J/mol×K	654.67	Joback Method

cpg	403.21	J/mol×K	681.80	Joback Method
dvisc	0.0214208	Pa×s	270.20	Joback Method
dvisc	0.0047345	Pa×s	311.67	Joback Method
dvisc	0.0014917	Pa×s	353.14	Joback Method
dvisc	0.0005991	Pa×s	394.61	Joback Method
dvisc	0.0002862	Pa×s	436.08	Joback Method
dvisc	0.0001555	Pa×s	477.55	Joback Method
dvisc	0.0000931	Pa×s	519.02	Joback Method

Sources

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=C18912806&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.cheméo.com/doc/models/crippen_log10ws

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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