2-(2-Isopentoxyethoxy)ethanol

Inchi: InChI=1S/C9H20O3/c1-9(2)3-5-11-7-8-12-6-4-10/h9-10H,3-8H2,1-2H3
InchiKey: AVHNOTCXRFERQM-UHFFFAOYSA-N
Formula: C9H20O3
SMILES: CC(C)CCOCCOCCO
Mol. weight [g/mol]: 176.25

Physical Properties

Property code	Value	Unit	Source
gf	-324.36	kJ/mol	Joback Method
hf	-651.04	kJ/mol	Joback Method
hfus	22.01	kJ/mol	Joback Method
hvap	56.74	kJ/mol	Joback Method
log10ws	-0.79		Crippen Method
logp	1.058		Crippen Method
mcvol	155.280	ml/mol	McGowan Method
pc	2460.47	kPa	Joback Method
rinpol	1317.00		NIST Webbook
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tb	541.90	K	Joback Method
tc	703.95	K	Joback Method
tf	281.47	K	Joback Method
vc	0.589	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	385.69	J/mol×K	541.90	Joback Method
cpg	443.66	J/mol×K	676.94	Joback Method
cpg	432.90	J/mol×K	649.93	Joback Method
cpg	421.72	J/mol×K	622.92	Joback Method
cpg	410.13	J/mol×K	595.92	Joback Method
cpg	398.11	J/mol×K	568.91	Joback Method
cpg	454.00	J/mol×K	703.95	Joback Method
dvisc	0.0000768	Pa×s	541.90	Joback Method

dvisc	0.0001277	Pa×s	498.50	Joback Method
dvisc	0.0002337	Pa×s	455.09	Joback Method
dvisc	0.0004859	Pa×s	411.69	Joback Method
dvisc	0.0012004	Pa×s	368.28	Joback Method
dvisc	0.0037768	Pa×s	324.88	Joback Method
dvisc	0.0169215	Pa×s	281.47	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R188735&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume