2-(2-(2-Isobutoxy-ethoxy)-ethoxy)-ethanol

Inchi: InChI=1S/C10H22O4/c1-10(2)9-14-8-7-13-6-5-12-4-3-11/h10-11H,3-9H2,1-2H3
InchiKey: AJSNIWUHRQAZOS-UHFFFAOYSA-N
Formula: C10H22O4
SMILES: CC(C)COCCOCCOCCO
Mol. weight [g/mol]: 206.28

Physical Properties

Property code	Value	Unit	Source
gf	-420.94	kJ/mol	Joback Method
hf	-803.90	kJ/mol	Joback Method
hfus	25.79	kJ/mol	Joback Method
hvap	61.38	kJ/mol	Joback Method
log10ws	-0.29		Crippen Method
logp	0.685		Crippen Method
mcvol	175.240	ml/mol	McGowan Method
pc	2206.22	kPa	Joback Method
rinpol	1514.70		NIST Webbook
tb	587.20	K	Joback Method
tc	748.97	K	Joback Method
tf	314.97	K	Joback Method
vc	0.662	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	460.39	J/mol×K	587.20	Joback Method
cpg	473.54	J/mol×K	614.16	Joback Method
cpg	486.24	J/mol×K	641.12	Joback Method
cpg	498.49	J/mol×K	668.09	Joback Method
cpg	510.27	J/mol×K	695.05	Joback Method
cpg	521.60	J/mol×K	722.01	Joback Method
cpg	532.45	J/mol×K	748.97	Joback Method
dvisc	0.0066432	Pa×s	314.97	Joback Method
dvisc	0.0017231	Pa×s	360.34	Joback Method

dvisc	0.0006044	Pa×s	405.71	Joback Method
dvisc	0.0002617	Pa×s	451.09	Joback Method
dvisc	0.0001321	Pa×s	496.46	Joback Method
dvisc	0.0000747	Pa×s	541.83	Joback Method
dvisc	0.0000462	Pa×s	587.20	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=R188448&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