2-(2-Isobutoxyethoxy)ethyl acetate

Inchi: InChI=1S/C10H20O4/c1-9(2)8-13-5-4-12-6-7-14-10(3)11/h9H,4-8H2,1-3H3
InchiKey: IFECNCNVQFVRMZ-UHFFFAOYSA-N
Formula: C10H20O4
SMILES: CC(=O)OCCOCCOCC(C)C
Mol. weight [g/mol]: 204.26

Physical Properties

Property code	Value	Unit	Source
gf	-413.04	kJ/mol	Joback Method
hf	-764.25	kJ/mol	Joback Method
hfus	23.30	kJ/mol	Joback Method
hvap	51.44	kJ/mol	Joback Method
log10ws	-0.80		Crippen Method
logp	1.239		Crippen Method
mcvol	170.940	ml/mol	McGowan Method
pc	2147.32	kPa	Joback Method
rinpol	1366.00		NIST Webbook
tb	548.89	K	Joback Method
tc	723.39	K	Joback Method
tf	304.08	K	Joback Method
vc	0.649	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	420.67	J/mol×K	548.89	Joback Method
cpg	434.80	J/mol×K	577.97	Joback Method
cpg	448.44	J/mol×K	607.06	Joback Method
cpg	461.58	J/mol×K	636.14	Joback Method
cpg	474.23	J/mol×K	665.22	Joback Method
cpg	486.36	J/mol×K	694.31	Joback Method
cpg	497.96	J/mol×K	723.39	Joback Method
dvisc	0.0022438	Pa×s	304.08	Joback Method
dvisc	0.0010704	Pa×s	344.88	Joback Method

dvisc	0.0005972	Pa×s	385.68	Joback Method
dvisc	0.0003726	Pa×s	426.49	Joback Method
dvisc	0.0002524	Pa×s	467.29	Joback Method
dvisc	0.0001820	Pa×s	508.09	Joback Method
dvisc	0.0001378	Pa×s	548.89	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R188700&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

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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