2-(2-(2-Butoxyethoxy)ethoxy)ethyl isobutyl carbonate

Inchi: InChI=1S/C15H30O6/c1-4-5-6-17-7-8-18-9-10-19-11-12-20-15(16)21-13-14(2)3/h14H,4-1

InchiKey: DYNVFGMBZHTCAJ-UHFFFAOYSA-N

Formula: C15H30O6

SMILES: CCCCOCCOCCOCCOC(=O)OCC(C)C

Mol. weight [g/mol]: 306.40

Physical Properties

Property code	Value	Unit	Source
gf	-580.94	kJ/mol	Joback Method
hf	-1131.89	kJ/mol	Joback Method
hfus	38.62	kJ/mol	Joback Method
hvap	67.39	kJ/mol	Joback Method
log10ws	-2.05		Crippen Method
logp	2.646		Crippen Method
mcvol	253.130	ml/mol	McGowan Method
pc	1400.64	kPa	Joback Method
rinpol	1944.00		NIST Webbook
tb	708.13	K	Joback Method
tc	880.67	K	Joback Method
tf	404.89	K	Joback Method
vc	0.966	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	742.38	J/mol×K	708.13	Joback Method
cpg	818.89	J/mol×K	851.91	Joback Method
cpg	805.24	J/mol×K	823.16	Joback Method
cpg	790.75	J/mol×K	794.40	Joback Method
cpg	775.43	J/mol×K	765.64	Joback Method
cpg	759.30	J/mol×K	736.89	Joback Method
cpg	831.69	J/mol×K	880.67	Joback Method
dvisc	0.0000445	Pa×s	708.13	Joback Method
dvisc	0.0000591	Pa×s	657.59	Joback Method

dvisc	0.0000823	Pa×s	607.05	Joback Method
dvisc	0.0001217	Pa×s	556.51	Joback Method
dvisc	0.0001947	Pa×s	505.97	Joback Method
dvisc	0.0003456	Pa×s	455.43	Joback Method
dvisc	0.0007081	Pa×s	404.89	Joback Method

Sources

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
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=U378286&Units=SI

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