

2-(2-Ethoxyethoxy)ethyl isobutyl carbonate

Inchi:	InChI=1S/C11H22O5/c1-4-13-5-6-14-7-8-15-11(12)16-9-10(2)3/h10H,4-9H2,1-3H3
InchiKey:	GNXZKDRRMBDOKD-UHFFFAOYSA-N
Formula:	C11H22O5
SMILES:	CCOCCOCCOC(=O)OCC(C)C
Mol. weight [g/mol]:	234.29

Physical Properties

Property code	Value	Unit	Source
gf	-509.62	kJ/mol	Joback Method
hf	-917.11	kJ/mol	Joback Method
hfus	27.07	kJ/mol	Joback Method
hvap	56.08	kJ/mol	Joback Method
log10ws	-1.29		Crippen Method
logp	1.849		Crippen Method
mvol	190.900	ml/mol	McGowan Method
pc	1938.95	kPa	Joback Method
rinpol	1494.00		NIST Webbook
rinpol	1494.00		NIST Webbook
tb	594.19	K	Joback Method
tc	766.99	K	Joback Method
tf	337.58	K	Joback Method
vc	0.724	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	496.93	J/mol×K	594.19	Joback Method
cpg	511.70	J/mol×K	622.99	Joback Method
cpg	525.93	J/mol×K	651.79	Joback Method
cpg	539.63	J/mol×K	680.59	Joback Method
cpg	552.76	J/mol×K	709.39	Joback Method
cpg	565.31	J/mol×K	738.19	Joback Method
cpg	577.28	J/mol×K	766.99	Joback Method
dvisc	0.0014624	Paxs	337.58	Joback Method

dvisc	0.0007221	Paxs	380.35	Joback Method
dvisc	0.0004112	Paxs	423.12	Joback Method
dvisc	0.0002597	Paxs	465.88	Joback Method
dvisc	0.0001772	Paxs	508.65	Joback Method
dvisc	0.0001283	Paxs	551.42	Joback Method
dvisc	0.0000973	Paxs	594.19	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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=U378284&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

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