2-(Benzyloxy)ethyl methyl carbonate

Inchi: InChI=1S/C11H14O4/c1-13-11(12)15-8-7-14-9-10-5-3-2-4-6-10/h2-6H,7-9H2,1H3
InchiKey: WQRQRJJICXLFKF-UHFFFAOYSA-N
Formula: C11H14O4
SMILES: COC(=O)OCCOCc1ccccc1
Mol. weight [g/mol]: 210.23

Physical Properties

Property code	Value	Unit	Source
gf	-289.77	kJ/mol	Joback Method
hf	-543.08	kJ/mol	Joback Method
hfus	23.45	kJ/mol	Joback Method
hvap	56.33	kJ/mol	Joback Method
log10ws	-2.04		Crippen Method
logp	1.986		Crippen Method
mcvol	161.270	ml/mol	McGowan Method
pc	2681.86	kPa	Joback Method
rinpol	1575.60		NIST Webbook
tb	598.89	K	Joback Method
tc	803.90	K	Joback Method
tf	356.77	K	Joback Method
vc	0.604	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	396.20	J/mol×K	598.89	Joback Method
cpg	458.50	J/mol×K	769.73	Joback Method
cpg	447.50	J/mol×K	735.56	Joback Method
cpg	435.77	J/mol×K	701.39	Joback Method
cpg	423.30	J/mol×K	667.23	Joback Method
cpg	410.11	J/mol×K	633.06	Joback Method
cpg	468.75	J/mol×K	803.90	Joback Method
dvisc	0.0001298	Pa×s	598.89	Joback Method
dvisc	0.0001651	Pa×s	558.54	Joback Method

dvisc	0.0002179	Pa×s	518.18	Joback Method
dvisc	0.0003015	Pa×s	477.83	Joback Method
dvisc	0.0004429	Pa×s	437.48	Joback Method
dvisc	0.0007034	Pa×s	397.12	Joback Method
dvisc	0.0012406	Pa×s	356.77	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=U352535&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