Dipropyl hexahydrofuro[3,2-b]furan-3,6-diyl dicarbonate

Inchi: InChI=1S/C14H22O8/c1-3-5-17-13(15)21-9-7-19-12-10(8-20-11(9)12)22-14(16)18-6-4-2/

InchiKey: OEIRELINKFOWFW-UHFFFAOYSA-N

Formula: C14H22O8

SMILES: CCCOC(=O)OC1COC2C(OC(=O)OCCC)COC12

Mol. weight [g/mol]: 318.32

Physical Properties

Property code	Value	Unit	Source
gf	-701.20	kJ/mol	Joback Method
hf	-1257.73	kJ/mol	Joback Method
hfus	50.14	kJ/mol	Joback Method
hvap	78.46	kJ/mol	Joback Method
log10ws	-1.95		Crippen Method
logp	1.648		Crippen Method
mcvol	224.760	ml/mol	McGowan Method
pc	1927.05	kPa	Joback Method
rinpol	2138.00		NIST Webbook
rinpol	2138.00		NIST Webbook
tb	783.72	K	Joback Method
tc	985.60	K	Joback Method
tf	509.82	K	Joback Method
vc	0.842	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	727.28	J/mol×K	783.72	Joback Method
cpg	743.12	J/mol×K	817.37	Joback Method
cpg	757.83	J/mol×K	851.01	Joback Method
cpg	771.38	J/mol×K	884.66	Joback Method
cpg	783.77	J/mol×K	918.31	Joback Method
cpg	795.01	J/mol×K	951.96	Joback Method
cpg	805.08	J/mol×K	985.60	Joback Method
dvisc	0.0014090	Pa×s	509.82	Joback Method

dvisc	0.0010268	Pa×s	555.47	Joback Method
dvisc	0.0007852	Pa×s	601.12	Joback Method
dvisc	0.0006235	Pa×s	646.77	Joback Method
dvisc	0.0005105	Pa×s	692.42	Joback Method
dvisc	0.0004284	Pa×s	738.07	Joback Method
dvisc	0.0003669	Pa×s	783.72	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=U373900&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