Glutaric acid, propyl tetrahydrofurfuryl ester

Inchi: InChI=1S/C13H22O5/c1-2-8-17-12(14)6-3-7-13(15)18-10-11-5-4-9-16-11/h11H,2-10H2,1
InchiKey: DALAEXUVVCGILF-UHFFFAOYSA-N
Formula: C13H22O5
SMILES: CCCOC(=O)CCCC(=O)OCC1CCCO1
Mol. weight [g/mol]: 258.31

Physical Properties

Property code	Value	Unit	Source
gf	-458.83	kJ/mol	Joback Method
hf	-872.77	kJ/mol	Joback Method
hfus	36.91	kJ/mol	Joback Method
hvap	67.61	kJ/mol	Joback Method
log10ws	-2.08		Crippen Method
logp	1.832		Crippen Method
mcvol	203.920	ml/mol	McGowan Method
pc	2060.49	kPa	Joback Method
rinpol	1908.00		NIST Webbook
rinpol	1908.00		NIST Webbook
tb	691.65	K	Joback Method
tc	887.41	K	Joback Method
tf	418.06	K	Joback Method
vc	0.773	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	591.61	J/mol×K	691.65	Joback Method
cpg	663.04	J/mol×K	854.78	Joback Method
cpg	650.57	J/mol×K	822.16	Joback Method
cpg	637.20	J/mol×K	789.53	Joback Method
cpg	622.93	J/mol×K	756.90	Joback Method
cpg	607.73	J/mol×K	724.28	Joback Method
cpg	674.61	J/mol×K	887.41	Joback Method
dvisc	0.0001758	Pa×s	691.65	Joback Method

dvisc	0.0002248	Pa×s	646.05	Joback Method
dvisc	0.0002984	Pa×s	600.45	Joback Method
dvisc	0.0004149	Pa×s	554.86	Joback Method
dvisc	0.0006121	Pa×s	509.26	Joback Method
dvisc	0.0009746	Pa×s	463.66	Joback Method
dvisc	0.0017176	Pa×s	418.06	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=U359657&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