Glutaric acid, butyl tetrahydrofurfuryl ester

Inchi: InChI=1S/C14H24O5/c1-2-3-9-18-13(15)7-4-8-14(16)19-11-12-6-5-10-17-12/h12H,2-11H
InchiKey: QBHWJHBWBUUQRU-UHFFFAOYSA-N
Formula: C14H24O5
SMILES: CCCCOC(=O)CCCC(=O)OCC1CCCO1
Mol. weight [g/mol]: 272.34

Physical Properties

Property code	Value	Unit	Source
gf	-450.41	kJ/mol	Joback Method
hf	-893.41	kJ/mol	Joback Method
hfus	39.50	kJ/mol	Joback Method
hvap	69.84	kJ/mol	Joback Method
log10ws	-2.50		Crippen Method
logp	2.222		Crippen Method
mcvol	218.010	ml/mol	McGowan Method
pc	1892.00	kPa	Joback Method
rinpol	2011.00		NIST Webbook
tb	714.53	K	Joback Method
tc	908.66	K	Joback Method
tf	429.33	K	Joback Method
vc	0.830	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	646.55	J/mol×K	714.53	Joback Method
cpg	663.02	J/mol×K	746.88	Joback Method
cpg	678.52	J/mol×K	779.24	Joback Method
cpg	693.06	J/mol×K	811.59	Joback Method
cpg	706.67	J/mol×K	843.95	Joback Method
cpg	719.35	J/mol×K	876.30	Joback Method
cpg	731.11	J/mol×K	908.66	Joback Method
dvisc	0.0015886	Pa×s	429.33	Joback Method
dvisc	0.0008884	Pa×s	476.86	Joback Method

dvisc	0.0005521	Pa×s	524.40	Joback Method
dvisc	0.0003713	Pa×s	571.93	Joback Method
dvisc	0.0002654	Pa×s	619.46	Joback Method
dvisc	0.0001990	Pa×s	667.00	Joback Method
dvisc	0.0001550	Pa×s	714.53	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=U359659&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