Glutaric acid, hexyl tetrahydrofurfuryl ester

Inchi: InChI=1S/C16H28O5/c1-2-3-4-5-11-20-15(17)9-6-10-16(18)21-13-14-8-7-12-19-14/h14H
InchiKey: BJAANRCRIWFPRT-UHFFFAOYSA-N
Formula: C16H28O5
SMILES: CCCCCCOC(=O)CCCC(=O)OCC1CCCO1
Mol. weight [g/mol]: 300.39

Physical Properties

Property code	Value	Unit	Source
gf	-433.57	kJ/mol	Joback Method
hf	-934.69	kJ/mol	Joback Method
hfus	44.68	kJ/mol	Joback Method
hvap	74.29	kJ/mol	Joback Method
log10ws	-3.34		Crippen Method
logp	3.002		Crippen Method
mcvol	246.190	ml/mol	McGowan Method
pc	1611.58	kPa	Joback Method
rinpol	2208.00		NIST Webbook
tb	760.29	K	Joback Method
tc	952.60	K	Joback Method
tf	451.87	K	Joback Method
vc	0.942	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	759.76	J/mol×K	760.29	Joback Method
cpg	776.78	J/mol×K	792.34	Joback Method
cpg	792.77	J/mol×K	824.39	Joback Method
cpg	807.73	J/mol×K	856.45	Joback Method
cpg	821.68	J/mol×K	888.50	Joback Method
cpg	834.65	J/mol×K	920.55	Joback Method
cpg	846.65	J/mol×K	952.60	Joback Method
dvisc	0.0013349	Pa×s	451.87	Joback Method
dvisc	0.0007265	Pa×s	503.27	Joback Method

dvisc	0.0004426	Pa×s	554.68	Joback Method
dvisc	0.0002933	Pa×s	606.08	Joback Method
dvisc	0.0002073	Pa×s	657.48	Joback Method
dvisc	0.0001540	Pa×s	708.89	Joback Method
dvisc	0.0001192	Pa×s	760.29	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=U359662&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