Glutaric acid, pentyl tetrahydrofurfuryl ester

Inchi: InChI=1S/C15H26O5/c1-2-3-4-10-19-14(16)8-5-9-15(17)20-12-13-7-6-11-18-13/h13H,2-1
InchiKey: CYAMANFTXDWMFN-UHFFFAOYSA-N
Formula: C15H26O5
SMILES: CCCCCOC(=O)CCCC(=O)OCC1CCCO1
Mol. weight [g/mol]: 286.36

Physical Properties

Property code	Value	Unit	Source
gf	-441.99	kJ/mol	Joback Method
hf	-914.05	kJ/mol	Joback Method
hfus	42.09	kJ/mol	Joback Method
hvap	72.06	kJ/mol	Joback Method
log10ws	-2.92		Crippen Method
logp	2.612		Crippen Method
mcvol	232.100	ml/mol	McGowan Method
pc	1743.37	kPa	Joback Method
rinpol	2111.00		NIST Webbook
rinpol	2111.00		NIST Webbook
tb	737.41	K	Joback Method
tc	930.37	K	Joback Method
tf	440.60	K	Joback Method
vc	0.885	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	702.63	J/mol×K	737.41	Joback Method
cpg	776.56	J/mol×K	898.21	Joback Method
cpg	763.72	J/mol×K	866.05	Joback Method
cpg	749.92	J/mol×K	833.89	Joback Method
cpg	735.15	J/mol×K	801.73	Joback Method
cpg	719.39	J/mol×K	769.57	Joback Method
cpg	788.46	J/mol×K	930.37	Joback Method
dvisc	0.0001362	Pa×s	737.41	Joback Method

dvisc	0.0001754	Pa×s	687.94	Joback Method
dvisc	0.0002350	Pa×s	638.47	Joback Method
dvisc	0.0003307	Pa×s	589.00	Joback Method
dvisc	0.0004955	Pa×s	539.54	Joback Method
dvisc	0.0008054	Pa×s	490.07	Joback Method
dvisc	0.0014603	Pa×s	440.60	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=U359660&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