Glutaric acid, ethyl tetrahydrofurfuryl ester

Inchi: InChI=1S/C12H20O5/c1-2-15-11(13)6-3-7-12(14)17-9-10-5-4-8-16-10/h10H,2-9H2,1H3
InchiKey: UYGAHFRVFALUEJ-UHFFFAOYSA-N
Formula: C12H20O5
SMILES: CCOC(=O)CCCC(=O)OCC1CCCO1
Mol. weight [g/mol]: 244.28

Physical Properties

Property code	Value	Unit	Source
gf	-467.25	kJ/mol	Joback Method
hf	-852.13	kJ/mol	Joback Method
hfus	34.32	kJ/mol	Joback Method
hvap	65.38	kJ/mol	Joback Method
log10ws	-1.66		Crippen Method
logp	1.442		Crippen Method
mcvol	189.830	ml/mol	McGowan Method
pc	2252.53	kPa	Joback Method
rinpol	1807.00		NIST Webbook
tb	668.77	K	Joback Method
tc	866.58	K	Joback Method
tf	406.79	K	Joback Method
vc	0.718	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	537.89	J/mol×K	668.77	Joback Method
cpg	607.67	J/mol×K	833.61	Joback Method
cpg	595.47	J/mol×K	800.64	Joback Method
cpg	582.40	J/mol×K	767.67	Joback Method
cpg	568.45	J/mol×K	734.71	Joback Method
cpg	553.62	J/mol×K	701.74	Joback Method
cpg	619.02	J/mol×K	866.58	Joback Method
dvisc	0.0001985	Pa×s	668.77	Joback Method
dvisc	0.0002528	Pa×s	625.11	Joback Method

dvisc	0.0003339	Pa×s	581.44	Joback Method
dvisc	0.0004613	Pa×s	537.78	Joback Method
dvisc	0.0006748	Pa×s	494.12	Joback Method
dvisc	0.0010626	Pa×s	450.45	Joback Method
dvisc	0.0018445	Pa×s	406.79	Joback Method

Sources

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=U359656&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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