Glutaric acid, ditetrahydrofurfuryl ester

Inchi: InChI=1S/C15H24O6/c16-14(20-10-12-4-2-8-18-12)6-1-7-15(17)21-11-13-5-3-9-19-13/h1
InchiKey: VLQQQWCPHFOKKR-UHFFFAOYSA-N
Formula: C15H24O6
SMILES: O=C(CCCC(=O)OCC1CCCO1)OCC1CCCO1
Mol. weight [g/mol]: 300.35

Physical Properties

Property code	Value	Unit	Source
gf	-491.56	kJ/mol	Joback Method
hf	-985.57	kJ/mol	Joback Method
hfus	44.01	kJ/mol	Joback Method
hvap	76.83	kJ/mol	Joback Method
log10ws	-2.01		Crippen Method
logp	1.601		Crippen Method
mcvol	227.110	ml/mol	McGowan Method
pc	2021.76	kPa	Joback Method
rinpol	2369.00		NIST Webbook
rinpol	2369.00		NIST Webbook
tb	779.64	K	Joback Method
tc	991.42	K	Joback Method
tf	478.07	K	Joback Method
vc	0.848	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	727.20	J/mol×K	779.64	Joback Method
cpg	744.33	J/mol×K	814.94	Joback Method
cpg	760.18	J/mol×K	850.23	Joback Method
cpg	774.78	J/mol×K	885.53	Joback Method
cpg	788.16	J/mol×K	920.82	Joback Method
cpg	800.35	J/mol×K	956.12	Joback Method
cpg	811.36	J/mol×K	991.42	Joback Method
dvisc	0.0016040	Pa×s	478.07	Joback Method

dvisc	0.0009308	Pa×s	528.33	Joback Method
dvisc	0.0005937	Pa×s	578.59	Joback Method
dvisc	0.0004069	Pa×s	628.86	Joback Method
dvisc	0.0002949	Pa×s	679.12	Joback Method
dvisc	0.0002234	Pa×s	729.38	Joback Method
dvisc	0.0001755	Pa×s	779.64	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U359674&Units=SI
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

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