Glutaric acid, di(2-ethoxyethyl) ester

Inchi: InChI=1S/C13H24O6/c1-3-16-8-10-18-12(14)6-5-7-13(15)19-11-9-17-4-2/h3-11H2,1-2H3
InchiKey: PMMQYPRIEGHPSP-UHFFFAOYSA-N
Formula: C13H24O6
SMILES: CCOCCOC(=O)CCCC(=O)OCCOCC
Mol. weight [g/mol]: 276.33

Physical Properties

Property code	Value	Unit	Source
gf	-619.26	kJ/mol	Joback Method
hf	-1065.69	kJ/mol	Joback Method
hfus	37.38	kJ/mol	Joback Method
hvap	67.66	kJ/mol	Joback Method
log10ws	-1.16		Crippen Method
logp	1.316		Crippen Method
mcvol	220.650	ml/mol	McGowan Method
pc	1724.59	kPa	Joback Method
rinpol	1890.00		NIST Webbook
rinpol	1890.00		NIST Webbook
tb	694.26	K	Joback Method
tc	871.17	K	Joback Method
tf	425.05	K	Joback Method
vc	0.848	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	624.73	J/mol×K	694.26	Joback Method
cpg	639.54	J/mol×K	723.75	Joback Method
cpg	653.64	J/mol×K	753.23	Joback Method
cpg	667.02	J/mol×K	782.72	Joback Method
cpg	679.67	J/mol×K	812.20	Joback Method
cpg	691.57	J/mol×K	841.69	Joback Method
cpg	702.70	J/mol×K	871.17	Joback Method
dvisc	0.0007961	Pa×s	425.05	Joback Method

dvisc	0.0004524	Pa×s	469.92	Joback Method
dvisc	0.0002838	Pa×s	514.79	Joback Method
dvisc	0.0001918	Pa×s	559.65	Joback Method
dvisc	0.0001374	Pa×s	604.52	Joback Method
dvisc	0.0001031	Pa×s	649.39	Joback Method
dvisc	0.0000802	Pa×s	694.26	Joback Method

Sources

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=U359635&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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

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