

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/molxK	694.26	Joback Method
cpg	639.54	J/molxK	723.75	Joback Method
cpg	653.64	J/molxK	753.23	Joback Method
cpg	667.02	J/molxK	782.72	Joback Method
cpg	679.67	J/molxK	812.20	Joback Method
cpg	691.57	J/molxK	841.69	Joback Method
cpg	702.70	J/molxK	871.17	Joback Method
dvisc	0.0007961	Paxs	425.05	Joback Method

dvisc	0.0004524	Paxs	469.92	Joback Method
dvisc	0.0002838	Paxs	514.79	Joback Method
dvisc	0.0001918	Paxs	559.65	Joback Method
dvisc	0.0001374	Paxs	604.52	Joback Method
dvisc	0.0001031	Paxs	649.39	Joback Method
dvisc	0.0000802	Paxs	694.26	Joback Method

Sources

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/ci9903071
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

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