Diglycolic acid, ethyl 2-methoxyphenyl ester

Inchi: InChI=1S/C13H16O6/c1-3-18-12(14)8-17-9-13(15)19-11-7-5-4-6-10(11)16-2/h4-7H,3,8-9
InchiKey: GCMFAVPDQOBISS-UHFFFAOYSA-N
Formula: C13H16O6
SMILES: CCOC(=O)COCC(=O)Oc1ccccc1OC
Mol. weight [g/mol]: 268.26

Physical Properties

Property code	Value	Unit	Source
gf	-516.48	kJ/mol	Joback Method
hf	-840.63	kJ/mol	Joback Method
hfus	31.03	kJ/mol	Joback Method
hvap	70.60	kJ/mol	Joback Method
log10ws	-1.53		Crippen Method
logp	1.180		Crippen Method
mcvol	196.890	ml/mol	McGowan Method
pc	2284.95	kPa	Joback Method
rinpol	2414.00		NIST Webbook
rinpol	2414.00		NIST Webbook
tb	725.92	K	Joback Method
tc	931.20	K	Joback Method
tf	463.99	K	Joback Method
vc	0.740	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	539.65	J/mol×K	725.92	Joback Method
cpg	553.00	J/mol×K	760.13	Joback Method
cpg	565.47	J/mol×K	794.35	Joback Method
cpg	577.03	J/mol×K	828.56	Joback Method
cpg	587.66	J/mol×K	862.77	Joback Method
cpg	597.33	J/mol×K	896.98	Joback Method
cpg	606.03	J/mol×K	931.20	Joback Method
dvisc	0.0005583	Pa×s	463.99	Joback Method

dvisc	0.0003515	Pa×s	507.65	Joback Method
dvisc	0.0002381	Pa×s	551.30	Joback Method
dvisc	0.0001707	Pa×s	594.96	Joback Method
dvisc	0.0001281	Pa×s	638.61	Joback Method
dvisc	0.0000998	Pa×s	682.27	Joback Method
dvisc	0.0000801	Pa×s	725.92	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=U382239&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