Diethylmalonic acid, 2-methoxyethyl propyl ester

Inchi: InChI=1S/C13H24O5/c1-5-8-17-11(14)13(6-2,7-3)12(15)18-10-9-16-4/h5-10H2,1-4H3
InchiKey: KLHNIZCOZZBGOU-UHFFFAOYSA-N
Formula: C13H24O5
SMILES: CCCOC(=O)C(CC)(CC)C(=O)OCCOC
Mol. weight [g/mol]: 260.33

Physical Properties

Property code	Value	Unit	Source
gf	-511.42	kJ/mol	Joback Method
hf	-942.22	kJ/mol	Joback Method
hfus	28.77	kJ/mol	Joback Method
hvap	63.96	kJ/mol	Joback Method
log10ws	-1.83		Crippen Method
logp	1.936		Crippen Method
mcvol	214.780	ml/mol	McGowan Method
pc	1777.34	kPa	Joback Method
rinpol	1531.00		NIST Webbook
rinpol	1531.00		NIST Webbook
tb	668.61	K	Joback Method
tc	852.22	K	Joback Method
tf	405.24	K	Joback Method
vc	0.819	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	599.16	J/mol×K	668.61	Joback Method
cpg	614.53	J/mol×K	699.21	Joback Method
cpg	629.11	J/mol×K	729.81	Joback Method
cpg	642.93	J/mol×K	760.42	Joback Method
cpg	655.98	J/mol×K	791.02	Joback Method
cpg	668.26	J/mol×K	821.62	Joback Method
cpg	679.79	J/mol×K	852.22	Joback Method
dvisc	0.0011570	Pa×s	405.24	Joback Method

dvisc	0.0006130	Pa×s	449.13	Joback Method
dvisc	0.0003637	Pa×s	493.03	Joback Method
dvisc	0.0002350	Pa×s	536.92	Joback Method
dvisc	0.0001622	Pa×s	580.82	Joback Method
dvisc	0.0001180	Pa×s	624.72	Joback Method
dvisc	0.0000894	Pa×s	668.61	Joback Method

Sources

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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U370670&Units=SI

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