di-(1-Methyl-2-methoxybutyl)succinate

Inchi: InChI=1S/C14H26O6/c1-9(17-5)11(3)19-13(15)7-8-14(16)20-12(4)10(2)18-6/h9-12H,7-8
InchiKey: LESIGGLTOCQBHH-UHFFFAOYSA-N
Formula: C14H26O6
SMILES: COC(C)C(C)OC(=O)CCC(=O)OC(C)C(C)OC
Mol. weight [g/mol]: 290.35

Physical Properties

Property code	Value	Unit	Source
gf	-620.60	kJ/mol	Joback Method
hf	-1107.45	kJ/mol	Joback Method
hfus	25.87	kJ/mol	Joback Method
hvap	68.34	kJ/mol	Joback Method
log10ws	-2.03		Crippen Method
logp	1.700		Crippen Method
mcvol	234.740	ml/mol	McGowan Method
pc	1636.45	kPa	Joback Method
rinpol	1594.00		NIST Webbook
tb	715.38	K	Joback Method
tc	901.08	K	Joback Method
tf	376.32	K	Joback Method
vc	0.879	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	681.91	J/mol×K	715.38	Joback Method
cpg	698.03	J/mol×K	746.33	Joback Method
cpg	713.27	J/mol×K	777.28	Joback Method
cpg	727.62	J/mol×K	808.23	Joback Method
cpg	741.07	J/mol×K	839.18	Joback Method
cpg	753.60	J/mol×K	870.13	Joback Method
cpg	765.19	J/mol×K	901.08	Joback Method
dvisc	0.0016568	Pa×s	376.32	Joback Method
dvisc	0.0006358	Pa×s	432.83	Joback Method

dvisc	0.0003044	Pa×s	489.34	Joback Method
dvisc	0.0001697	Pa×s	545.85	Joback Method
dvisc	0.0001056	Pa×s	602.36	Joback Method
dvisc	0.0000713	Pa×s	658.87	Joback Method
dvisc	0.0000512	Pa×s	715.38	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R541894&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