di-(3-Methoxybutyl)succinate

Inchi: InChI=1S/C14H26O6/c1-11(17-3)7-9-19-13(15)5-6-14(16)20-10-8-12(2)18-4/h11-12H,5-1
InchiKey: NQQXSMSMEDVFBP-UHFFFAOYSA-N
Formula: C14H26O6
SMILES: COC(C)CCOC(=O)CCC(=O)OCCC(C)OC
Mol. weight [g/mol]: 290.35

Physical Properties

Property code	Value	Unit	Source
gf	-615.72	kJ/mol	Joback Method
hf	-1096.89	kJ/mol	Joback Method
hfus	32.92	kJ/mol	Joback Method
hvap	69.11	kJ/mol	Joback Method
log10ws	-1.81		Crippen Method
logp	1.703		Crippen Method
mcvol	234.740	ml/mol	McGowan Method
pc	1615.47	kPa	Joback Method
rinpol	1829.00		NIST Webbook
tb	716.26	K	Joback Method
tc	897.43	K	Joback Method
tf	406.32	K	Joback Method
vc	0.891	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	680.91	J/mol×K	716.26	Joback Method
cpg	696.60	J/mol×K	746.46	Joback Method
cpg	711.47	J/mol×K	776.65	Joback Method
cpg	725.50	J/mol×K	806.85	Joback Method
cpg	738.69	J/mol×K	837.04	Joback Method
cpg	751.03	J/mol×K	867.24	Joback Method
cpg	762.49	J/mol×K	897.43	Joback Method
dvisc	0.0010461	Pa×s	406.32	Joback Method
dvisc	0.0004965	Pa×s	457.98	Joback Method

dvisc	0.0002740	Pa×s	509.63	Joback Method
dvisc	0.0001687	Pa×s	561.29	Joback Method
dvisc	0.0001128	Pa×s	612.95	Joback Method
dvisc	0.0000802	Pa×s	664.60	Joback Method
dvisc	0.0000599	Pa×s	716.26	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R542288&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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