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

Inchi: InChI=1S/C17H32O6/c1-12(20-5)14(3)22-16(18)10-8-7-9-11-17(19)23-15(4)13(2)21-6/h1
InchiKey: UBJJGSASEAGHLB-UHFFFAOYSA-N
Formula: C17H32O6
SMILES: COC(C)C(C)OC(=O)CCCCCC(=O)OC(C)C(C)OC
Mol. weight [g/mol]: 332.43

Physical Properties

Property code	Value	Unit	Source
gf	-595.34	kJ/mol	Joback Method
hf	-1169.37	kJ/mol	Joback Method
hfus	33.64	kJ/mol	Joback Method
hvap	75.02	kJ/mol	Joback Method
log10ws	-3.29		Crippen Method
logp	2.870		Crippen Method
mcvol	277.010	ml/mol	McGowan Method
pc	1312.75	kPa	Joback Method
rinpol	1888.00		NIST Webbook
rinpol	1888.00		NIST Webbook
tb	784.02	K	Joback Method
tc	970.49	K	Joback Method
tf	410.13	K	Joback Method
vc	1.048	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	854.08	J/mol×K	784.02	Joback Method
cpg	871.17	J/mol×K	815.10	Joback Method
cpg	887.19	J/mol×K	846.18	Joback Method
cpg	902.15	J/mol×K	877.26	Joback Method
cpg	916.02	J/mol×K	908.34	Joback Method
cpg	928.81	J/mol×K	939.41	Joback Method
cpg	940.49	J/mol×K	970.49	Joback Method
dvisc	0.0011357	Pa×s	410.13	Joback Method

dvisc	0.0004268	Pa×s	472.44	Joback Method
dvisc	0.0002015	Pa×s	534.76	Joback Method
dvisc	0.0001112	Pa×s	597.08	Joback Method
dvisc	0.0000687	Pa×s	659.39	Joback Method
dvisc	0.0000461	Pa×s	721.70	Joback Method
dvisc	0.0000330	Pa×s	784.02	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=R541869&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