

di-(2-Methoxybutyl)glutarate

Inchi:	InChI=1S/C15H28O6/c1-5-12(18-3)10-20-14(16)8-7-9-15(17)21-11-13(6-2)19-4/h12-13H
InchiKey:	GMNIFUIFTBDRIV-UHFFFAOYSA-N
Formula:	C15H28O6
SMILES:	CCC(COC(=O)CCCC(=O)OCC(CC)OC)OC
Mol. weight [g/mol]:	304.38

Physical Properties

Property code	Value	Unit	Source
gf	-607.30	kJ/mol	Joback Method
hf	-1117.53	kJ/mol	Joback Method
hfus	35.51	kJ/mol	Joback Method
hvap	71.34	kJ/mol	Joback Method
log10ws	-2.22		Crippen Method
logp	2.093		Crippen Method
mcvol	248.830	ml/mol	McGowan Method
pc	1497.67	kPa	Joback Method
rinpol	1644.00		NIST Webbook
tb	739.14	K	Joback Method
tc	920.55	K	Joback Method
tf	417.59	K	Joback Method
vc	0.948	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	737.27	J/molxK	739.14	Joback Method
cpg	753.36	J/molxK	769.38	Joback Method
cpg	768.57	J/molxK	799.61	Joback Method
cpg	782.89	J/molxK	829.85	Joback Method
cpg	796.31	J/molxK	860.08	Joback Method
cpg	808.81	J/molxK	890.32	Joback Method
cpg	820.39	J/molxK	920.55	Joback Method
dvisc	0.0009422	Paxs	417.59	Joback Method
dvisc	0.0004420	Paxs	471.18	Joback Method

dvisc	0.0002420	Paxs	524.77	Joback Method
dvisc	0.0001481	Paxs	578.37	Joback Method
dvisc	0.0000986	Paxs	631.96	Joback Method
dvisc	0.0000699	Paxs	685.55	Joback Method
dvisc	0.0000521	Paxs	739.14	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R542139&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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

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