Glutaric acid, cyclopentyl 3-methylbut-2-yl ester

Inchi: InChI=1S/C15H26O4/c1-11(2)12(3)18-14(16)9-6-10-15(17)19-13-7-4-5-8-13/h11-13H,4-1

InchiKey: KJXONBPMIDGPFE-UHFFFAOYSA-N

Formula: C15H26O4

SMILES: CC(C)C(C)OC(=O)CCCC(=O)OC1CCCC1

Mol. weight [g/mol]: 270.36

Physical Properties

Property code	Value	Unit	Source
gf	-360.75	kJ/mol	Joback Method
hf	-792.61	kJ/mol	Joback Method
hfus	27.07	kJ/mol	Joback Method
hvap	66.78	kJ/mol	Joback Method
log10ws	-3.70		Crippen Method
logp	3.230		Crippen Method
mcvol	226.230	ml/mol	McGowan Method
pc	1780.34	kPa	Joback Method
rinpol	1797.00		NIST Webbook
rinpol	1797.00		NIST Webbook
tb	709.58	K	Joback Method
tc	908.41	K	Joback Method
tf	384.03	K	Joback Method
vc	0.853	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	669.69	J/mol×K	709.58	Joback Method
cpg	687.76	J/mol×K	742.72	Joback Method
cpg	704.75	J/mol×K	775.86	Joback Method
cpg	720.68	J/mol×K	809.00	Joback Method
cpg	735.57	J/mol×K	842.13	Joback Method
cpg	749.42	J/mol×K	875.27	Joback Method
cpg	762.25	J/mol×K	908.41	Joback Method
dvisc	0.0024150	Pa×s	384.03	Joback Method

dvisc	0.0010977	Pa×s	438.29	Joback Method
dvisc	0.0005936	Pa×s	492.55	Joback Method
dvisc	0.0003627	Pa×s	546.81	Joback Method
dvisc	0.0002422	Pa×s	601.06	Joback Method
dvisc	0.0001729	Pa×s	655.32	Joback Method
dvisc	0.0001300	Pa×s	709.58	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U405389&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