Glutaric acid, dec-2-yl 2,6-dimethoxyphenyl ester

Inchi: InChI=1S/C23H36O6/c1-5-6-7-8-9-10-13-18(2)28-21(24)16-12-17-22(25)29-23-19(26-3)1

InchiKey: QYAPQJYBUCHKQI-UHFFFAOYSA-N

Formula: C23H36O6

SMILES: CCCCCCCCC(C)OC(=O)CCCC(=O)Oc1c(OC)cccc1OC

Mol. weight [g/mol]: 408.53

Physical Properties

Property code	Value	Unit	Source
gf	-444.35	kJ/mol	Joback Method
hf	-1063.78	kJ/mol	Joback Method
hfus	53.02	kJ/mol	Joback Method
hvap	93.14	kJ/mol	Joback Method
log10ws	-6.44		Crippen Method
logp	5.462		Crippen Method
mcvol	337.790	ml/mol	McGowan Method
pc	1068.66	kPa	Joback Method
rinpol	2839.00		NIST Webbook
rinpol	2839.00		NIST Webbook
tb	959.26	K	Joback Method
tc	1174.55	K	Joback Method
tf	574.21	K	Joback Method
vc	1.294	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1116.66	J/mol×K	959.26	Joback Method
cpg	1131.95	J/mol×K	995.14	Joback Method
cpg	1145.58	J/mol×K	1031.02	Joback Method
cpg	1157.54	J/mol×K	1066.90	Joback Method
cpg	1167.85	J/mol×K	1102.78	Joback Method
cpg	1176.50	J/mol×K	1138.67	Joback Method
cpg	1183.48	J/mol×K	1174.55	Joback Method
dvisc	0.0002001	Pa×s	574.21	Joback Method

dvisc	0.0001098	Pa×s	638.38	Joback Method
dvisc	0.0000673	Pa×s	702.56	Joback Method
dvisc	0.0000447	Pa×s	766.74	Joback Method
dvisc	0.0000317	Pa×s	830.91	Joback Method
dvisc	0.0000236	Pa×s	895.09	Joback Method
dvisc	0.0000182	Pa×s	959.26	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=U392009&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