Glutaric acid, 2,6-dimethoxyphenyl ethyl ester

Inchi: InChI=1S/C15H20O6/c1-4-20-13(16)9-6-10-14(17)21-15-11(18-2)7-5-8-12(15)19-3/h5,7-
InchiKey: UKMKTAGJJYAVGZ-UHFFFAOYSA-N
Formula: C15H20O6
SMILES: CCOC(=O)CCCC(=O)Oc1c(OC)cccc1OC
Mol. weight [g/mol]: 296.32

Physical Properties

Property code	Value	Unit	Source
gf	-509.27	kJ/mol	Joback Method
hf	-893.38	kJ/mol	Joback Method
hfus	35.82	kJ/mol	Joback Method
hvap	75.72	kJ/mol	Joback Method
log10ws	-2.98		Crippen Method
logp	2.343		Crippen Method
mcvol	225.070	ml/mol	McGowan Method
pc	1892.00	kPa	Joback Method
rinpol	2191.00		NIST Webbook
tb	776.66	K	Joback Method
tc	979.25	K	Joback Method
tf	499.05	K	Joback Method
vc	0.852	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	647.28	J/mol×K	776.66	Joback Method
cpg	661.26	J/mol×K	810.42	Joback Method
cpg	674.25	J/mol×K	844.19	Joback Method
cpg	686.21	J/mol×K	877.95	Joback Method
cpg	697.13	J/mol×K	911.72	Joback Method
cpg	707.00	J/mol×K	945.48	Joback Method
cpg	715.78	J/mol×K	979.25	Joback Method
dvisc	0.0004103	Pa×s	499.05	Joback Method
dvisc	0.0002622	Pa×s	545.32	Joback Method

dvisc	0.0001797	Pa×s	591.59	Joback Method
dvisc	0.0001301	Pa×s	637.86	Joback Method
dvisc	0.0000984	Pa×s	684.12	Joback Method
dvisc	0.0000771	Pa×s	730.39	Joback Method
dvisc	0.0000622	Pa×s	776.66	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U358703&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

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