Glutaric acid, 3-chlorophenyl 2,6-dimethoxyphenyl ester

Inchi: InChI=1S/C19H19ClO6/c1-23-15-8-4-9-16(24-2)19(15)26-18(22)11-5-10-17(21)25-14-7-3

InchiKey: LYRNWKYSYAKKDI-UHFFFAOYSA-N

Formula: C19H19ClO6

SMILES: COc1cccc(OC)c1OC(=O)CCCC(=O)Oc1cccc(Cl)c1

Mol. weight [g/mol]: 378.80

Physical Properties

Property code	Value	Unit	Source
gf	-384.74	kJ/mol	Joback Method
hf	-766.62	kJ/mol	Joback Method
hfus	44.03	kJ/mol	Joback Method
hvap	91.94	kJ/mol	Joback Method
log10ws	-5.09		Crippen Method
logp	4.038		Crippen Method
mcvol	269.910	ml/mol	McGowan Method
pc	1730.34	kPa	Joback Method
rinpol	2892.00		NIST Webbook
rinpol	2892.00		NIST Webbook
tb	937.27	K	Joback Method
tc	1166.37	K	Joback Method
tf	612.99	K	Joback Method
vc	1.016	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	796.65	J/mol×K	937.27	Joback Method
cpg	807.51	J/mol×K	975.45	Joback Method
cpg	816.86	J/mol×K	1013.64	Joback Method
cpg	824.68	J/mol×K	1051.82	Joback Method
cpg	830.97	J/mol×K	1090.00	Joback Method
cpg	835.70	J/mol×K	1128.18	Joback Method
cpg	838.88	J/mol×K	1166.37	Joback Method
dvisc	0.0001937	Pa×s	612.99	Joback Method

dvisc	0.0001275	Pa×s	667.04	Joback Method
dvisc	0.0000893	Pa×s	721.08	Joback Method
dvisc	0.0000658	Pa×s	775.13	Joback Method
dvisc	0.0000504	Pa×s	829.18	Joback Method
dvisc	0.0000399	Pa×s	883.22	Joback Method
dvisc	0.0000325	Pa×s	937.27	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U392008&Units=SI

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