Glutaric acid, di(4-chloro-2-methoxyphenyl) ester

Inchi: InChI=1S/C19H18Cl2O6/c1-24-16-10-12(20)6-8-14(16)26-18(22)4-3-5-19(23)27-15-9-7-1
InchiKey: ZNELHFVDPOZCRQ-UHFFFAOYSA-N
Formula: C19H18Cl2O6
SMILES: COc1cc(Cl)ccc1OC(=O)CCCC(=O)Oc1ccc(Cl)cc1OC
Mol. weight [g/mol]: 413.25

Physical Properties

Property code	Value	Unit	Source
gf	-406.30	kJ/mol	Joback Method
hf	-793.83	kJ/mol	Joback Method
hfus	47.84	kJ/mol	Joback Method
hvap	96.99	kJ/mol	Joback Method
log10ws	-5.78		Crippen Method
logp	4.692		Crippen Method
mcvol	282.150	ml/mol	McGowan Method
pc	1657.84	kPa	Joback Method
rinpol	3119.00		NIST Webbook
rinpol	3119.00		NIST Webbook
tb	979.68	K	Joback Method
tc	1213.79	K	Joback Method
tf	655.43	K	Joback Method
vc	1.065	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	813.99	J/mol×K	979.68	Joback Method
cpg	823.08	J/mol×K	1018.70	Joback Method
cpg	830.56	J/mol×K	1057.72	Joback Method
cpg	836.43	J/mol×K	1096.74	Joback Method
cpg	840.66	J/mol×K	1135.75	Joback Method
cpg	843.23	J/mol×K	1174.77	Joback Method
cpg	844.13	J/mol×K	1213.79	Joback Method
dvisc	0.0001487	Pa×s	655.43	Joback Method

dvisc	0.0001015	Pa×s	709.47	Joback Method
dvisc	0.0000732	Pa×s	763.51	Joback Method
dvisc	0.0000550	Pa×s	817.56	Joback Method
dvisc	0.0000429	Pa×s	871.60	Joback Method
dvisc	0.0000344	Pa×s	925.64	Joback Method
dvisc	0.0000283	Pa×s	979.68	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=U393917&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