Succinic acid, 4-chloro-3-methylphenyl 3-ethylphenyl ester

Inchi: InChI=1S/C19H19ClO4/c1-3-14-5-4-6-15(12-14)23-18(21)9-10-19(22)24-16-7-8-17(20)13

InchiKey: OAOJIAINJRUXEK-UHFFFAOYSA-N

Formula: C19H19ClO4

SMILES: CCc1cccc(OC(=O)CCC(=O)Oc2ccc(Cl)c(C)c2)c1

Mol. weight [g/mol]: 346.81

Physical Properties

Property code	Value	Unit	Source
gf	-174.74	kJ/mol	Joback Method
hf	-502.18	kJ/mol	Joback Method
hfus	41.65	kJ/mol	Joback Method
hvap	87.12	kJ/mol	Joback Method
log10ws	-5.71		Crippen Method
logp	4.502		Crippen Method
mcvol	258.170	ml/mol	McGowan Method
pc	1780.34	kPa	Joback Method
rinpol	2636.00		NIST Webbook
rinpol	2636.00		NIST Webbook
tb	892.43	K	Joback Method
tc	1122.94	K	Joback Method
tf	568.53	K	Joback Method
vc	0.981	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	744.88	J/mol×K	892.43	Joback Method
cpg	757.38	J/mol×K	930.85	Joback Method
cpg	768.61	J/mol×K	969.27	Joback Method
cpg	778.59	J/mol×K	1007.69	Joback Method
cpg	787.36	J/mol×K	1046.11	Joback Method
cpg	794.94	J/mol×K	1084.52	Joback Method
cpg	801.34	J/mol×K	1122.94	Joback Method
dvisc	0.0003739	Pa×s	568.53	Joback Method

dvisc	0.0002395	Pa×s	622.51	Joback Method
dvisc	0.0001647	Pa×s	676.50	Joback Method
dvisc	0.0001197	Pa×s	730.48	Joback Method
dvisc	0.0000909	Pa×s	784.46	Joback Method
dvisc	0.0000716	Pa×s	838.45	Joback Method
dvisc	0.0000580	Pa×s	892.43	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U390109&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