Succinic acid, 4-chloro-3-methylphenyl 2,3-dimethylphenyl ester

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

InchiKey: KHFOAWJTIQLLAI-UHFFFAOYSA-N

Formula: C19H19ClO4

SMILES: Cc1cc(OC(=O)CCC(=O)Oc2cccc(C)c2C)ccc1Cl

Mol. weight [g/mol]: 346.81

Physical Properties

Property code	Value	Unit	Source
gf	-184.37	kJ/mol	Joback Method
hf	-513.65	kJ/mol	Joback Method
hfus	41.26	kJ/mol	Joback Method
hvap	87.78	kJ/mol	Joback Method
log10ws	-5.86		Crippen Method
logp	4.556		Crippen Method
mcvol	258.170	ml/mol	McGowan Method
pc	1758.02	kPa	Joback Method
rinpol	2775.00		NIST Webbook
rinpol	2775.00		NIST Webbook
tb	897.41	K	Joback Method
tc	1128.66	K	Joback Method
tf	581.05	K	Joback Method
vc	0.981	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	743.49	J/mol×K	897.41	Joback Method
cpg	792.81	J/mol×K	1090.12	Joback Method
cpg	785.44	J/mol×K	1051.58	Joback Method
cpg	776.84	J/mol×K	1013.04	Joback Method
cpg	766.99	J/mol×K	974.49	Joback Method
cpg	755.88	J/mol×K	935.95	Joback Method
cpg	798.96	J/mol×K	1128.66	Joback Method
dvisc	0.0000591	Pa×s	897.41	Joback Method

dvisc	0.0000721	Pa×s	844.68	Joback Method
dvisc	0.0000904	Pa×s	791.96	Joback Method
dvisc	0.0001170	Pa×s	739.23	Joback Method
dvisc	0.0001577	Pa×s	686.50	Joback Method
dvisc	0.0002233	Pa×s	633.78	Joback Method
dvisc	0.0003367	Pa×s	581.05	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U390028&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