Succinic acid, 2-chlorophenyl 4-isopropylphenyl ester

Inchi: InChI=1S/C19H19ClO4/c1-13(2)14-7-9-15(10-8-14)23-18(21)11-12-19(22)24-17-6-4-3-5-

InchiKey: BLTOWMREEODYHM-UHFFFAOYSA-N

Formula: C19H19ClO4

SMILES: CC(C)c1ccc(OC(=O)CCC(=O)Oc2ccccc2Cl)cc1

Mol. weight [g/mol]: 346.81

Physical Properties

Property code	Value	Unit	Source
gf	-167.55	kJ/mol	Joback Method
hf	-495.99	kJ/mol	Joback Method
hfus	38.52	kJ/mol	Joback Method
hvap	86.07	kJ/mol	Joback Method
log10ws	-5.62		Crippen Method
logp	4.755		Crippen Method
mcvol	258.170	ml/mol	McGowan Method
pc	1815.41	kPa	Joback Method
rinpol	2719.00		NIST Webbook
rinpol	2719.00		NIST Webbook
tb	887.01	K	Joback Method
tc	1119.83	K	Joback Method
tf	541.01	K	Joback Method
vc	0.975	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	746.80	J/mol×K	887.01	Joback Method
cpg	797.75	J/mol×K	1081.03	Joback Method
cpg	790.04	J/mol×K	1042.22	Joback Method
cpg	781.12	J/mol×K	1003.42	Joback Method
cpg	770.96	J/mol×K	964.62	Joback Method
cpg	759.53	J/mol×K	925.81	Joback Method
cpg	804.30	J/mol×K	1119.83	Joback Method
dvisc	0.0000520	Pa×s	887.01	Joback Method

dvisc	0.0000659	Pa×s	829.34	Joback Method
dvisc	0.0000864	Pa×s	771.68	Joback Method
dvisc	0.0001184	Pa×s	714.01	Joback Method
dvisc	0.0001715	Pa×s	656.34	Joback Method
dvisc	0.0002667	Pa×s	598.68	Joback Method
dvisc	0.0004558	Pa×s	541.01	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U357554&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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