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

Inchi: InChI=1S/C18H16Cl2O5/c1-11-9-13(4-5-14(11)20)24-17(21)7-8-18(22)25-15-6-3-12(19)1

InchiKey: JEASZMFPGBJMMY-UHFFFAOYSA-N

Formula: C18H16Cl2O5

SMILES: COc1cc(Cl)ccc1OC(=O)CCC(=O)Oc1ccc(Cl)c(C)c1

Mol. weight [g/mol]: 383.22

Physical Properties

Property code	Value	Unit	Source
gf	-309.72	kJ/mol	Joback Method
hf	-640.97	kJ/mol	Joback Method
hfus	44.06	kJ/mol	Joback Method
hvap	92.35	kJ/mol	Joback Method
log10ws	-5.71		Crippen Method
logp	4.602		Crippen Method
mcvol	262.190	ml/mol	McGowan Method
pc	1821.61	kPa	Joback Method
rinpol	2923.00		NIST Webbook
rinpol	2923.00		NIST Webbook
tb	934.38	K	Joback Method
tc	1169.70	K	Joback Method
tf	621.93	K	Joback Method
vc	0.992	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	732.74	J/mol×K	934.38	Joback Method
cpg	742.82	J/mol×K	973.60	Joback Method
cpg	751.52	J/mol×K	1012.82	Joback Method
cpg	758.84	J/mol×K	1052.04	Joback Method
cpg	764.76	J/mol×K	1091.26	Joback Method
cpg	769.29	J/mol×K	1130.48	Joback Method
cpg	772.42	J/mol×K	1169.70	Joback Method
dvisc	0.0002290	Pa×s	621.93	Joback Method

dvisc	0.0001564	Pa×s	674.00	Joback Method
dvisc	0.0001129	Pa×s	726.08	Joback Method
dvisc	0.0000851	Pa×s	778.15	Joback Method
dvisc	0.0000664	Pa×s	830.23	Joback Method
dvisc	0.0000534	Pa×s	882.30	Joback Method
dvisc	0.0000440	Pa×s	934.38	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U390944&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

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