Succinic acid, 2,3-dichlorophenyl 2,6-dichlorophenyl ester

Inchi: InChI=1S/C16H10Cl4O4/c17-9-3-2-6-12(15(9)20)23-13(21)7-8-14(22)24-16-10(18)4-1-5-

InchiKey: VKJIVZWUDMOINB-UHFFFAOYSA-N

Formula: C16H10Cl4O4

SMILES: O=C(CCC(=O)Oc1c(Cl)cccc1Cl)Oc1cccc(Cl)c1Cl

Mol. weight [g/mol]: 408.06

Physical Properties

Property code	Value	Unit	Source
gf	-245.42	kJ/mol	Joback Method
hf	-498.95	kJ/mol	Joback Method
hfus	46.08	kJ/mol	Joback Method
hvap	94.26	kJ/mol	Joback Method
log10ws	-6.49		Crippen Method
logp	5.591		Crippen Method
mcvol	252.620	ml/mol	McGowan Method
pc	2051.17	kPa	Joback Method
rinpol	2956.00		NIST Webbook
rinpol	2956.00		NIST Webbook
tb	941.06	K	Joback Method
tc	1188.49	K	Joback Method
tf	637.00	K	Joback Method
vc	0.960	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	632.85	J/mol×K	941.06	Joback Method
cpg	640.69	J/mol×K	982.30	Joback Method
cpg	647.35	J/mol×K	1023.54	Joback Method
cpg	652.84	J/mol×K	1064.78	Joback Method
cpg	657.18	J/mol×K	1106.01	Joback Method
cpg	660.38	J/mol×K	1147.25	Joback Method
cpg	662.46	J/mol×K	1188.49	Joback Method
dvisc	0.0002777	Pa×s	637.00	Joback Method

dvisc	0.0001940	Pa×s	687.68	Joback Method
dvisc	0.0001424	Pa×s	738.35	Joback Method
dvisc	0.0001087	Pa×s	789.03	Joback Method
dvisc	0.0000858	Pa×s	839.71	Joback Method
dvisc	0.0000695	Pa×s	890.38	Joback Method
dvisc	0.0000576	Pa×s	941.06	Joback Method

Sources

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=U389872&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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