Succinic acid, di(2,3,4,6-tetrachlorophenyl) ester

Inchi: InChI=1S/C16H6Cl8O4/c17-5-3-7(19)15(13(23)11(5)21)27-9(25)1-2-10(26)28-16-8(20)4-

InchiKey: HHTHSQLODDBEMK-UHFFFAOYSA-N

Formula: C16H6Cl8O4

SMILES: O=C(CCC(=O)Oc1c(Cl)cc(Cl)c(Cl)c1Cl)Oc1c(Cl)cc(Cl)c(Cl)c1Cl

Mol. weight [g/mol]: 545.84

Physical Properties

Property code	Value	Unit	Source
gf	-331.66	kJ/mol	Joback Method
hf	-607.79	kJ/mol	Joback Method
hfus	61.32	kJ/mol	Joback Method
hvap	114.45	kJ/mol	Joback Method
log10ws	-9.23		Crippen Method
logp	8.205		Crippen Method
mcvol	301.580	ml/mol	McGowan Method
pc	1713.19	kPa	Joback Method
rinpol	3226.00		NIST Webbook
rinpol	3226.00		NIST Webbook
tb	1110.70	K	Joback Method
tc	1373.95	K	Joback Method
tf	806.76	K	Joback Method
vc	1.155	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	675.23	J/mol×K	1110.70	Joback Method
cpg	677.01	J/mol×K	1154.58	Joback Method
cpg	677.41	J/mol×K	1198.45	Joback Method
cpg	676.39	J/mol×K	1242.33	Joback Method
cpg	673.96	J/mol×K	1286.20	Joback Method
cpg	670.10	J/mol×K	1330.08	Joback Method
cpg	664.79	J/mol×K	1373.95	Joback Method
dvisc	0.0001087	Pa×s	806.76	Joback Method

dvisc	0.0000836	Pa×s	857.42	Joback Method
dvisc	0.0000662	Pa×s	908.07	Joback Method
dvisc	0.0000538	Pa×s	958.73	Joback Method
dvisc	0.0000446	Pa×s	1009.39	Joback Method
dvisc	0.0000376	Pa×s	1060.04	Joback Method
dvisc	0.0000323	Pa×s	1110.70	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=U349686&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