Succinic acid, di(2,4-dichlorophenethyl) ester

Inchi: InChI=1S/C20H18Cl4O4/c21-15-3-1-13(17(23)11-15)7-9-27-19(25)5-6-20(26)28-10-8-14
InchiKey: HQLVMINBXCVZDE-UHFFFAOYSA-N
Formula: C20H18Cl4O4
SMILES: O=C(CCC(=O)OCCc1ccc(Cl)cc1Cl)OCCc1ccc(Cl)cc1Cl
Mol. weight [g/mol]: 464.17

Physical Properties

Property code	Value	Unit	Source
gf	-211.74	kJ/mol	Joback Method
hf	-581.51	kJ/mol	Joback Method
hfus	56.44	kJ/mol	Joback Method
hvap	103.17	kJ/mol	Joback Method
log10ws	-6.87		Crippen Method
logp	5.952		Crippen Method
mcvol	308.980	ml/mol	McGowan Method
pc	1488.44	kPa	Joback Method
rinpol	3246.00		NIST Webbook
rinpol	3246.00		NIST Webbook
tb	1032.58	K	Joback Method
tc	1274.79	K	Joback Method
tf	682.08	K	Joback Method
vc	1.183	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	857.79	J/mol×K	1032.58	Joback Method
cpg	886.89	J/mol×K	1234.42	Joback Method
cpg	883.55	J/mol×K	1194.05	Joback Method
cpg	879.01	J/mol×K	1153.69	Joback Method
cpg	873.23	J/mol×K	1113.32	Joback Method
cpg	866.16	J/mol×K	1072.95	Joback Method
cpg	889.05	J/mol×K	1274.79	Joback Method
dvisc	0.0000318	Pa×s	1032.58	Joback Method

dvisc	0.0000389	Pa×s	974.16	Joback Method
dvisc	0.0000489	Pa×s	915.75	Joback Method
dvisc	0.0000633	Pa×s	857.33	Joback Method
dvisc	0.0000851	Pa×s	798.91	Joback Method
dvisc	0.0001200	Pa×s	740.50	Joback Method
dvisc	0.0001794	Pa×s	682.08	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=U381601&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