Succinic acid, 2-ethylhexyl 2,4-dichloronaphth-1-yl ester

Inchi: InChI=1S/C22H26Cl2O4/c1-3-5-8-15(4-2)14-27-20(25)11-12-21(26)28-22-17-10-7-6-9-16

InchiKey: FKCQUUHQJIXODO-UHFFFAOYSA-N

Formula: C22H26Cl2O4

SMILES: CCCCC(CC)COC(=O)CCC(=O)Oc1c(Cl)cc(Cl)c2ccccc12

Mol. weight [g/mol]: 425.35

Physical Properties

Property code	Value	Unit	Source
gf	-169.61	kJ/mol	Joback Method
hf	-630.58	kJ/mol	Joback Method
hfus	53.07	kJ/mol	Joback Method
hvap	97.16	kJ/mol	Joback Method
log10ws	-7.77		Crippen Method
logp	6.592		Crippen Method
mcvol	316.980	ml/mol	McGowan Method
pc	1300.47	kPa	Joback Method
rinpol	3110.00		NIST Webbook
rinpol	3110.00		NIST Webbook
tb	990.36	K	Joback Method
tc	1218.30	K	Joback Method
tf	623.54	K	Joback Method
vc	1.222	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	964.72	J/mol×K	990.36	Joback Method
cpg	977.28	J/mol×K	1028.35	Joback Method
cpg	988.70	J/mol×K	1066.34	Joback Method
cpg	999.04	J/mol×K	1104.33	Joback Method
cpg	1008.37	J/mol×K	1142.32	Joback Method
cpg	1016.73	J/mol×K	1180.31	Joback Method
cpg	1024.18	J/mol×K	1218.30	Joback Method
dvisc	0.0003701	Pa×s	623.54	Joback Method

dvisc	0.0002380	Pa×s	684.68	Joback Method
dvisc	0.0001646	Pa×s	745.81	Joback Method
dvisc	0.0001204	Pa×s	806.95	Joback Method
dvisc	0.0000920	Pa×s	868.09	Joback Method
dvisc	0.0000728	Pa×s	929.22	Joback Method
dvisc	0.0000594	Pa×s	990.36	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U389905&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

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