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

Inchi: InChI=1S/C16H14Cl2O4/c1-2-21-14(19)7-8-15(20)22-16-11-6-4-3-5-10(11)12(17)9-13(16
InchiKey: FSJWXEZRUNIYAU-UHFFFAOYSA-N
Formula: C16H14Cl2O4
SMILES: CCOC(=O)CCC(=O)Oc1c(Cl)cc(Cl)c2ccccc12
Mol. weight [g/mol]: 341.19

Physical Properties

Property code	Value	Unit	Source
gf	-217.69	kJ/mol	Joback Method
hf	-501.46	kJ/mol	Joback Method
hfus	41.06	kJ/mol	Joback Method
hvap	84.19	kJ/mol	Joback Method
log10ws	-5.50		Crippen Method
logp	4.395		Crippen Method
mcvol	232.440	ml/mol	McGowan Method
pc	2056.76	kPa	Joback Method
rinpol	2421.00		NIST Webbook
rinpol	2421.00		NIST Webbook
tb	853.52	K	Joback Method
tc	1082.62	K	Joback Method
tf	570.92	K	Joback Method
vc	0.891	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	620.83	J/mol×K	853.52	Joback Method
cpg	666.64	J/mol×K	1044.44	Joback Method
cpg	659.23	J/mol×K	1006.26	Joback Method
cpg	650.97	J/mol×K	968.07	Joback Method
cpg	641.85	J/mol×K	929.89	Joback Method
cpg	631.81	J/mol×K	891.70	Joback Method
cpg	673.24	J/mol×K	1082.62	Joback Method
dvisc	0.0001460	Pa×s	853.52	Joback Method

dvisc	0.0001730	Pa×s	806.42	Joback Method
dvisc	0.0002093	Pa×s	759.32	Joback Method
dvisc	0.0002597	Pa×s	712.22	Joback Method
dvisc	0.0003323	Pa×s	665.12	Joback Method
dvisc	0.0004414	Pa×s	618.02	Joback Method
dvisc	0.0006145	Pa×s	570.92	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U389915&Units=SI

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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