

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

Inchi:	InChI=1S/C24H30Cl2O4/c1-3-4-5-6-7-8-11-17(2)29-22(27)14-15-23(28)30-24-19-13-10-9
InchiKey:	KHPSWFHTMGYESW-UHFFFAOYSA-N
Formula:	C24H30Cl2O4
SMILES:	CCCCCCCCC(C)OC(=O)CCC(=O)Oc1c(Cl)cc(Cl)c2cccc12
Mol. weight [g/mol]:	453.40

Physical Properties

Property code	Value	Unit	Source
gf	-152.77	kJ/mol	Joback Method
hf	-671.86	kJ/mol	Joback Method
hfus	58.25	kJ/mol	Joback Method
hvap	101.61	kJ/mol	Joback Method
log10ws	-8.96		Crippen Method
logp	7.514		Crippen Method
mvol	345.160	ml/mol	McGowan Method
pc	1137.50	kPa	Joback Method
rinpol	3274.00		NIST Webbook
rinpol	3274.00		NIST Webbook
tb	1036.12	K	Joback Method
tc	1269.45	K	Joback Method
tf	646.08	K	Joback Method
vc	1.333	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1084.42	J/molxK	1036.12	Joback Method
cpg	1097.42	J/molxK	1075.01	Joback Method
cpg	1109.20	J/molxK	1113.90	Joback Method
cpg	1119.85	J/molxK	1152.78	Joback Method
cpg	1129.42	J/molxK	1191.67	Joback Method
cpg	1137.98	J/molxK	1230.56	Joback Method
cpg	1145.61	J/molxK	1269.45	Joback Method
dvisc	0.0002985	Paxs	646.08	Joback Method

dvisc	0.0001879	Paxs	711.09	Joback Method
dvisc	0.0001279	Paxs	776.09	Joback Method
dvisc	0.0000923	Paxs	841.10	Joback Method
dvisc	0.0000699	Paxs	906.11	Joback Method
dvisc	0.0000549	Paxs	971.11	Joback Method
dvisc	0.0000444	Paxs	1036.12	Joback Method

Sources

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=U389907&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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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