

Diethylmalonic acid, 2,4-dichloronaphth-1-yl 2-methylhex-3-yl ester

Inchi:	InChI=1S/C24H30Cl2O4/c1-6-11-20(15(4)5)29-22(27)24(7-2,8-3)23(28)30-21-17-13-10-9
InchiKey:	ICMQCEBOUMLQAL-UHFFFAOYSA-N
Formula:	C24H30Cl2O4
SMILES:	CCCC(OC(=O)C(CC)(CC)C(=O)Oc1c(Cl)cc(Cl)c2ccccc12)C(C)C
Mol. weight [g/mol]:	453.40

Physical Properties

Property code	Value	Unit	Source
gf	-152.37	kJ/mol	Joback Method
hf	-685.89	kJ/mol	Joback Method
hfus	47.32	kJ/mol	Joback Method
hvap	99.93	kJ/mol	Joback Method
log10ws	-8.47		Crippen Method
logp	7.226		Crippen Method
mcvol	345.160	ml/mol	McGowan Method
pc	1158.50	kPa	Joback Method
rinpol	2914.00		NIST Webbook
rinpol	2914.00		NIST Webbook
tb	1032.45	K	Joback Method
tc	1268.50	K	Joback Method
tf	633.50	K	Joback Method
vc	1.317	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1085.04	J/molxK	1032.45	Joback Method
cpg	1098.33	J/molxK	1071.79	Joback Method
cpg	1110.54	J/molxK	1111.13	Joback Method
cpg	1121.77	J/molxK	1150.48	Joback Method
cpg	1132.12	J/molxK	1189.82	Joback Method
cpg	1141.69	J/molxK	1229.16	Joback Method
cpg	1150.57	J/molxK	1268.50	Joback Method
dvisc	0.0002626	Paxs	633.50	Joback Method

dvisc	0.0001542	Paxs	699.99	Joback Method
dvisc	0.0000994	Paxs	766.48	Joback Method
dvisc	0.0000687	Paxs	832.98	Joback Method
dvisc	0.0000501	Paxs	899.47	Joback Method
dvisc	0.0000382	Paxs	965.96	Joback Method
dvisc	0.0000302	Paxs	1032.45	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U370053&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.cheméo.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

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