Succinic acid, 2-methylpent-3-yl 2,4-dichloronaphth-1-yl ester

Inchi: InChI=1S/C20H22Cl2O4/c1-4-17(12(2)3)25-18(23)9-10-19(24)26-20-14-8-6-5-7-13(14)15

InchiKey: GVXJSJOUAUFKBM-UHFFFAOYSA-N

Formula: C20H22Cl2O4

SMILES: CCC(OC(=O)CCC(=O)Oc1c(Cl)cc(Cl)c2ccccc12)C(C)C

Mol. weight [g/mol]: 397.29

Physical Properties

Property code	Value	Unit	Source
gf	-188.89	kJ/mol	Joback Method
hf	-594.58	kJ/mol	Joback Method
hfus	44.37	kJ/mol	Joback Method
hvap	92.32	kJ/mol	Joback Method
log10ws	-7.04		Crippen Method
logp	5.810		Crippen Method
mcvol	288.800	ml/mol	McGowan Method
pc	1510.50	kPa	Joback Method
rinpol	2868.00		NIST Webbook
rinpol	2868.00		NIST Webbook
tb	944.16	K	Joback Method
tc	1172.54	K	Joback Method
tf	586.00	K	Joback Method
vc	1.103	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	847.86	J/mol×K	944.16	Joback Method
cpg	898.25	J/mol×K	1134.47	Joback Method
cpg	890.20	J/mol×K	1096.41	Joback Method
cpg	881.18	J/mol×K	1058.35	Joback Method
cpg	871.15	J/mol×K	1020.29	Joback Method
cpg	860.06	J/mol×K	982.22	Joback Method
cpg	905.40	J/mol×K	1172.54	Joback Method
dvisc	0.0000717	Pa×s	944.16	Joback Method

dvisc	0.0000884	Pa×s	884.47	Joback Method
dvisc	0.0001123	Pa×s	824.77	Joback Method
dvisc	0.0001482	Pa×s	765.08	Joback Method
dvisc	0.0002049	Pa×s	705.39	Joback Method
dvisc	0.0003009	Pa×s	645.69	Joback Method
dvisc	0.0004778	Pa×s	586.00	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=U389903&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