

Succinic acid, 2,3-dichlorophenyl trans-4-tert-butylcyclohexyl ester

Inchi:	InChI=1S/C20H26Cl2O4/c1-20(2,3)13-7-9-14(10-8-13)25-17(23)11-12-18(24)26-16-6-4-5
InchiKey:	HYMITNDSJTYLJT-UHFFFAOYSA-N
Formula:	C20H26Cl2O4
SMILES:	CC(C)(C)C1CCC(OC(=O)CCC(=O)Oc2cccc(Cl)c2Cl)CC1
Mol. weight [g/mol]:	401.32

Physical Properties

Property code	Value	Unit	Source
gf	-261.45	kJ/mol	Joback Method
hf	-738.39	kJ/mol	Joback Method
hfus	40.28	kJ/mol	Joback Method
hvap	89.62	kJ/mol	Joback Method
log10ws	-6.56		Crippen Method
logp	5.827		Crippen Method
mvol	297.400	ml/mol	McGowan Method
pc	1447.94	kPa	Joback Method
rinpol	2948.00		NIST Webbook
rinpol	2948.00		NIST Webbook
tb	932.73	K	Joback Method
tc	1167.28	K	Joback Method
tf	576.34	K	Joback Method
vc	1.115	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	927.70	J/molxK	932.73	Joback Method
cpg	942.00	J/molxK	971.82	Joback Method
cpg	954.72	J/molxK	1010.91	Joback Method
cpg	965.92	J/molxK	1050.00	Joback Method
cpg	975.66	J/molxK	1089.10	Joback Method
cpg	983.98	J/molxK	1128.19	Joback Method
cpg	990.94	J/molxK	1167.28	Joback Method
dvisc	0.0003885	Paxs	576.34	Joback Method

dvisc	0.0002268	Paxs	635.74	Joback Method
dvisc	0.0001451	Paxs	695.14	Joback Method
dvisc	0.0000996	Paxs	754.53	Joback Method
dvisc	0.0000723	Paxs	813.93	Joback Method
dvisc	0.0000548	Paxs	873.33	Joback Method
dvisc	0.0000430	Paxs	932.73	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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=U390203&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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