

Succinic acid, 2,3-dichlorophenyl dec-4-en-1-yl ester

Inchi:	InChI=1S/C20H26Cl2O4/c1-2-3-4-5-6-7-8-9-15-25-18(23)13-14-19(24)26-17-12-10-11-16
InchiKey:	PLKIIGKPCSXJLI-VOTSOKGWSA-N
Formula:	C20H26Cl2O4
SMILES:	CCCCC=CCCCOC(=O)CCC(=O)Oc1cccc(Cl)c1Cl
Mol. weight [g/mol]:	401.32

Physical Properties

Property code	Value	Unit	Source
gf	-200.81	kJ/mol	Joback Method
hf	-646.40	kJ/mol	Joback Method
hfus	54.99	kJ/mol	Joback Method
hvap	90.75	kJ/mol	Joback Method
log10ws	-6.89		Crippen Method
logp	6.139		Crippen Method
mvol	303.960	ml/mol	McGowan Method
pc	1306.12	kPa	Joback Method
rinpol	2854.00		NIST Webbook
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tb	925.24	K	Joback Method
tc	1140.48	K	Joback Method
tf	565.70	K	Joback Method
vc	1.173	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	900.93	J/molxK	925.24	Joback Method
cpg	914.29	J/molxK	961.11	Joback Method
cpg	926.56	J/molxK	996.99	Joback Method
cpg	937.78	J/molxK	1032.86	Joback Method
cpg	947.99	J/molxK	1068.73	Joback Method
cpg	957.23	J/molxK	1104.61	Joback Method
cpg	965.54	J/molxK	1140.48	Joback Method
dvisc	0.0003191	Paxs	565.70	Joback Method

dvisc	0.0001863	Paxs	625.62	Joback Method
dvisc	0.0001195	Paxs	685.55	Joback Method
dvisc	0.0000823	Paxs	745.47	Joback Method
dvisc	0.0000599	Paxs	805.39	Joback Method
dvisc	0.0000456	Paxs	865.32	Joback Method
dvisc	0.0000359	Paxs	925.24	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U391180&Units=SI
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

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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