

Succinic acid, 2,2-dichloroethyl diphenylmethyl ester

Inchi: InChI=1S/C19H18Cl2O4/c20-16(21)13-24-17(22)11-12-18(23)25-19(14-7-3-1-4-8-14)15-

InchiKey: CVFDKKKKENSHP-UHFFFAOYSA-N

Formula: C19H18Cl2O4

SMILES: O=C(CCC(=O)OC(c1ccccc1)c1ccccc1)OCC(Cl)Cl

Mol. weight [g/mol]: 381.25

Physical Properties

Property code	Value	Unit	Source
gf	-162.66	kJ/mol	Joback Method
hf	-494.07	kJ/mol	Joback Method
hfus	39.97	kJ/mol	Joback Method
hvap	88.75	kJ/mol	Joback Method
log10ws	-5.18		Crippen Method
logp	4.446		Crippen Method
mvol	270.410	ml/mol	McGowan Method
pc	1816.95	kPa	Joback Method
rinpol	2685.00		NIST Webbook
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tb	914.04	K	Joback Method
tc	1151.53	K	Joback Method
tf	530.89	K	Joback Method
vc	1.018	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	771.55	J/molxK	914.04	Joback Method
cpg	783.18	J/molxK	953.62	Joback Method
cpg	793.52	J/molxK	993.20	Joback Method
cpg	802.60	J/molxK	1032.78	Joback Method
cpg	810.50	J/molxK	1072.37	Joback Method
cpg	817.27	J/molxK	1111.95	Joback Method
cpg	822.96	J/molxK	1151.53	Joback Method
dvisc	0.0005412	Paxs	530.89	Joback Method

dvisc	0.0002765	Paxs	594.75	Joback Method
dvisc	0.0001609	Paxs	658.61	Joback Method
dvisc	0.0001030	Paxs	722.47	Joback Method
dvisc	0.0000709	Paxs	786.32	Joback Method
dvisc	0.0000516	Paxs	850.18	Joback Method
dvisc	0.0000393	Paxs	914.04	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U390168&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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