

Succinic acid, 2,2-dichloroethyl 2-naphthyl ester

Inchi:	InChI=1S/C16H14Cl2O4/c17-14(18)10-21-15(19)7-8-16(20)22-13-6-5-11-3-1-2-4-12(11)
InchiKey:	VHWWFQSCVIMLLF-UHFFFAOYSA-N
Formula:	C16H14Cl2O4
SMILES:	O=C(CCC(=O)Oc1ccc2ccccc2c1)OCC(Cl)Cl
Mol. weight [g/mol]:	341.19

Physical Properties

Property code	Value	Unit	Source
gf	-200.87	kJ/mol	Joback Method
hf	-483.80	kJ/mol	Joback Method
hfus	38.31	kJ/mol	Joback Method
hvap	82.48	kJ/mol	Joback Method
log10ws	-5.04		Crippen Method
logp	3.872		Crippen Method
mvol	232.440	ml/mol	McGowan Method
pc	2129.52	kPa	Joback Method
rinpol	2707.00		NIST Webbook
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tb	843.12	K	Joback Method
tc	1074.11	K	Joback Method
tf	530.88	K	Joback Method
vc	0.885	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	624.64	J/molxK	843.12	Joback Method
cpg	635.90	J/molxK	881.62	Joback Method
cpg	646.17	J/molxK	920.12	Joback Method
cpg	655.51	J/molxK	958.62	Joback Method
cpg	663.95	J/molxK	997.12	Joback Method
cpg	671.57	J/molxK	1035.62	Joback Method
cpg	678.40	J/molxK	1074.11	Joback Method
dvisc	0.0008048	Paxs	530.88	Joback Method

dvisc	0.0005181	Paxs	582.92	Joback Method
dvisc	0.0003585	Paxs	634.96	Joback Method
dvisc	0.0002623	Paxs	687.00	Joback Method
dvisc	0.0002006	Paxs	739.04	Joback Method
dvisc	0.0001589	Paxs	791.08	Joback Method
dvisc	0.0001295	Paxs	843.12	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=U389836&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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