

Succinic acid, 2,2-dichloroethyl dec-9-en-1-yl ester

Inchi:	InChI=1S/C16H26Cl2O4/c1-2-3-4-5-6-7-8-9-12-21-15(19)10-11-16(20)22-13-14(17)18/h2
InchiKey:	ZLXXYRQBDJQWNJ-UHFFFAOYSA-N
Formula:	C16H26Cl2O4
SMILES:	C=CCCCCCCCCOC(=O)CCC(=O)OCC(Cl)Cl
Mol. weight [g/mol]:	353.28

Physical Properties

Property code	Value	Unit	Source
gf	-322.46	kJ/mol	Joback Method
hf	-774.50	kJ/mol	Joback Method
hfus	46.36	kJ/mol	Joback Method
hvap	77.23	kJ/mol	Joback Method
log10ws	-5.01		Crippen Method
logp	4.573		Crippen Method
mcvol	271.360	ml/mol	McGowan Method
pc	1386.08	kPa	Joback Method
rinpol	2342.00		NIST Webbook
rinpol	2342.00		NIST Webbook
tb	789.16	K	Joback Method
tc	978.97	K	Joback Method
tf	457.48	K	Joback Method
vc	1.052	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	768.47	J/molxK	789.16	Joback Method
cpg	782.89	J/molxK	820.79	Joback Method
cpg	796.43	J/molxK	852.43	Joback Method
cpg	809.10	J/molxK	884.06	Joback Method
cpg	820.92	J/molxK	915.70	Joback Method
cpg	831.91	J/molxK	947.33	Joback Method
cpg	842.07	J/molxK	978.97	Joback Method
dvisc	0.0009618	Paxs	457.48	Joback Method

dvisc	0.0004892	Paxs	512.76	Joback Method
dvisc	0.0002838	Paxs	568.04	Joback Method
dvisc	0.0001813	Paxs	623.32	Joback Method
dvisc	0.0001246	Paxs	678.60	Joback Method
dvisc	0.0000906	Paxs	733.88	Joback Method
dvisc	0.0000689	Paxs	789.16	Joback Method

Sources

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=U391249&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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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