

Succinic acid, 8-chlorooctyl 2,2-dichloroethyl ester

Inchi:	InChI=1S/C14H23Cl3O4/c15-9-5-3-1-2-4-6-10-20-13(18)7-8-14(19)21-11-12(16)17/h12H
InchiKey:	RJJDUTIEVZWFOK-UHFFFAOYSA-N
Formula:	C14H23Cl3O4
SMILES:	O=C(CCC(=O)OCC(Cl)Cl)OCCCCCCCCCI
Mol. weight [g/mol]:	361.69

Physical Properties

Property code	Value	Unit	Source
gf	-439.07	kJ/mol	Joback Method
hf	-874.39	kJ/mol	Joback Method
hfus	46.66	kJ/mol	Joback Method
hvap	77.84	kJ/mol	Joback Method
log10ws	-4.47		Crippen Method
logp	4.236		Crippen Method
mcvol	259.720	ml/mol	McGowan Method
pc	1510.50	kPa	Joback Method
rinpol	2453.00		NIST Webbook
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tb	784.15	K	Joback Method
tc	976.41	K	Joback Method
tf	466.62	K	Joback Method
vc	1.008	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	708.74	J/molxK	784.15	Joback Method
cpg	766.63	J/molxK	944.37	Joback Method
cpg	756.70	J/molxK	912.32	Joback Method
cpg	745.95	J/molxK	880.28	Joback Method
cpg	734.38	J/molxK	848.24	Joback Method
cpg	721.98	J/molxK	816.19	Joback Method
cpg	775.77	J/molxK	976.41	Joback Method
dvisc	0.0000743	Paxs	784.15	Joback Method

dvisc	0.0000973	Paxs	731.23	Joback Method
dvisc	0.0001328	Paxs	678.31	Joback Method
dvisc	0.0001911	Paxs	625.38	Joback Method
dvisc	0.0002941	Paxs	572.46	Joback Method
dvisc	0.0004942	Paxs	519.54	Joback Method
dvisc	0.0009342	Paxs	466.62	Joback Method

Sources

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=U390526&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

cp_g:	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:	Log ₁₀ of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
m_{cvol}:	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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