

Succinic acid, monochloride, 2-chloropropyl ester

Inchi:	InChI=1S/C7H10Cl2O3/c1-5(8)4-12-7(11)3-2-6(9)10/h5H,2-4H2,1H3
InchiKey:	CBFQBJGKZBRWKX-UHFFFAOYSA-N
Formula:	C7H10Cl2O3
SMILES:	CC(Cl)COC(=O)CCC(=O)Cl
Mol. weight [g/mol]:	213.06

Physical Properties

Property code	Value	Unit	Source
gf	-381.08	kJ/mol	Joback Method
hf	-581.95	kJ/mol	Joback Method
hfus	23.14	kJ/mol	Joback Method
hvap	55.46	kJ/mol	Joback Method
log10ws	-1.81		Crippen Method
logp	1.703		Crippen Method
mcvol	142.980	ml/mol	McGowan Method
pc	2931.34	kPa	Joback Method
rinpol	1371.00		NIST Webbook
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tb	564.14	K	Joback Method
tc	764.87	K	Joback Method
tf	335.58	K	Joback Method
vc	0.549	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	304.52	J/molxK	564.14	Joback Method
cpg	348.52	J/molxK	731.41	Joback Method
cpg	340.70	J/molxK	697.96	Joback Method
cpg	332.39	J/molxK	664.50	Joback Method
cpg	323.60	J/molxK	631.05	Joback Method
cpg	314.31	J/molxK	597.59	Joback Method
cpg	355.85	J/molxK	764.87	Joback Method
dvisc	0.0002743	Paxs	564.14	Joback Method

dvisc	0.0003530	Paxs	526.05	Joback Method
dvisc	0.0004725	Paxs	487.95	Joback Method
dvisc	0.0006645	Paxs	449.86	Joback Method
dvisc	0.0009952	Paxs	411.77	Joback Method
dvisc	0.0016186	Paxs	373.67	Joback Method
dvisc	0.0029398	Paxs	335.58	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U349381&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

Legend

cp_g:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
g_f:	Standard Gibbs free energy of formation
h_f:	Enthalpy of formation at standard conditions
h_{fus}:	Enthalpy of fusion at standard conditions
h_{vap}:	Enthalpy of vaporization at standard conditions
log₁₀ws:	Log ₁₀ of Water solubility in mol/l
log_p:	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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