Succinic acid, di(2,2,2-trichloroethyl) ester

Inchi: InChI=1S/C8H8Cl6O4/c9-7(10,11)3-17-5(15)1-2-6(16)18-4-8(12,13)14/h1-4H2
InchiKey: KUKFKXHVFOUECA-UHFFFAOYSA-N
Formula: C8H8Cl6O4
SMILES: O=C(CCC(=O)OCC(Cl)(Cl)Cl)OCC(Cl)(Cl)Cl
Mol. weight [g/mol]: 380.87

Physical Properties

Property code	Value	Unit	Source
gf	-517.26	kJ/mol	Joback Method
hf	-809.99	kJ/mol	Joback Method
hfus	32.40	kJ/mol	Joback Method
hvap	75.43	kJ/mol	Joback Method
log10ws	-4.02		Crippen Method
logp	3.593		Crippen Method
mcvol	211.900	ml/mol	McGowan Method
pc	2315.84	kPa	Joback Method
rinpol	1997.00		NIST Webbook
rinpol	1997.00		NIST Webbook
tb	753.14	K	Joback Method
tc	980.64	K	Joback Method
tf	508.60	K	Joback Method
vc	0.803	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	463.13	J/mol×K	753.14	Joback Method
cpg	470.53	J/mol×K	791.06	Joback Method
cpg	477.20	J/mol×K	828.97	Joback Method
cpg	483.20	J/mol×K	866.89	Joback Method
cpg	488.58	J/mol×K	904.81	Joback Method
cpg	493.38	J/mol×K	942.72	Joback Method
cpg	497.66	J/mol×K	980.64	Joback Method
dvisc	0.0006817	Pa×s	508.60	Joback Method

dvisc	0.0004207	Pa×s	549.36	Joback Method
dvisc	0.0002775	Pa×s	590.11	Joback Method
dvisc	0.0001932	Pa×s	630.87	Joback Method
dvisc	0.0001405	Pa×s	671.63	Joback Method
dvisc	0.0001060	Pa×s	712.38	Joback Method
dvisc	0.0000824	Pa×s	753.14	Joback Method

Sources

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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U349181&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