Succinic acid, 2,2-dichloroethyl 2-ethylphenyl ester

Inchi: InChI=1S/C14H16Cl2O4/c1-2-10-5-3-4-6-11(10)20-14(18)8-7-13(17)19-9-12(15)16/h3-6,

InchiKey: WFGIGFBWIGSPNU-UHFFFAOYSA-N

Formula: C14H16Cl2O4

SMILES: CCc1ccccc1OC(=O)CCC(=O)OCC(Cl)Cl

Mol. weight [g/mol]: 319.18

Physical Properties

Property code	Value	Unit	Source
gf	-324.36	kJ/mol	Joback Method
hf	-633.59	kJ/mol	Joback Method
hfus	36.11	kJ/mol	Joback Method
hvap	76.39	kJ/mol	Joback Method
log10ws	-4.04		Crippen Method
logp	3.282		Crippen Method
mcvol	223.720	ml/mol	McGowan Method
pc	2029.06	kPa	Joback Method
rinpol	2119.00		NIST Webbook
rinpol	2119.00		NIST Webbook
tb	778.38	K	Joback Method
tc	994.35	K	Joback Method
tf	475.64	K	Joback Method
vc	0.852	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	590.88	J/mol×K	778.38	Joback Method
cpg	643.35	J/mol×K	958.35	Joback Method
cpg	634.74	J/mol×K	922.36	Joback Method
cpg	625.21	J/mol×K	886.36	Joback Method
cpg	614.73	J/mol×K	850.37	Joback Method
cpg	603.29	J/mol×K	814.37	Joback Method
cpg	651.03	J/mol×K	994.35	Joback Method
dvisc	0.0000875	Pa×s	778.38	Joback Method

dvisc	0.0001116	Pa×s	727.92	Joback Method
dvisc	0.0001475	Pa×s	677.47	Joback Method
dvisc	0.0002039	Pa×s	627.01	Joback Method
dvisc	0.0002984	Pa×s	576.55	Joback Method
dvisc	0.0004698	Pa×s	526.10	Joback Method
dvisc	0.0008144	Pa×s	475.64	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U389946&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

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