Succinic acid, 3,5-dichlorophenyl ethyl ester

Inchi: InChI=1S/C12H12Cl2O4/c1-2-17-11(15)3-4-12(16)18-10-6-8(13)5-9(14)7-10/h5-7H,2-4H
InchiKey: JAUNYACIFVMSCA-UHFFFAOYSA-N
Formula: C12H12Cl2O4
SMILES: CCOC(=O)CCC(=O)Oc1cc(Cl)cc(Cl)c1
Mol. weight [g/mol]: 291.13

Physical Properties

Property code	Value	Unit	Source
gf	-348.39	kJ/mol	Joback Method
hf	-598.50	kJ/mol	Joback Method
hfus	34.07	kJ/mol	Joback Method
hvap	72.99	kJ/mol	Joback Method
log10ws	-3.69		Crippen Method
logp	3.242		Crippen Method
mcvol	195.540	ml/mol	McGowan Method
pc	2377.22	kPa	Joback Method
rinpol	1962.00		NIST Webbook
rinpol	1962.00		NIST Webbook
tb	738.04	K	Joback Method
tc	957.03	K	Joback Method
tf	480.62	K	Joback Method
vc	0.746	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	483.25	J/mol×K	738.04	Joback Method
cpg	494.49	J/mol×K	774.54	Joback Method
cpg	504.90	J/mol×K	811.04	Joback Method
cpg	514.46	J/mol×K	847.53	Joback Method
cpg	523.20	J/mol×K	884.03	Joback Method
cpg	531.09	J/mol×K	920.53	Joback Method
cpg	538.15	J/mol×K	957.03	Joback Method
dvisc	0.0007350	Pa×s	480.62	Joback Method

dvisc	0.0004840	Pa×s	523.52	Joback Method
dvisc	0.0003395	Pa×s	566.43	Joback Method
dvisc	0.0002503	Pa×s	609.33	Joback Method
dvisc	0.0001922	Pa×s	652.23	Joback Method
dvisc	0.0001524	Pa×s	695.14	Joback Method
dvisc	0.0001242	Pa×s	738.04	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=U349718&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

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