Succinic acid, 2,4,6-trichlorophenyl non-3-en-1-yl ester

Inchi: InChI=1S/C19H23Cl3O4/c1-2-3-4-5-6-7-8-11-25-17(23)9-10-18(24)26-19-15(21)12-14(20
InchiKey: MVUFHJIYFFDSIE-VOTSOKGWSA-N
Formula: C19H23Cl3O4
SMILES: CCCCCC=CCCOC(=O)CCC(=O)Oc1c(Cl)cc(Cl)cc1Cl
Mol. weight [g/mol]: 421.74

Physical Properties

Property code	Value	Unit	Source
gf	-230.79	kJ/mol	Joback Method
hf	-652.97	kJ/mol	Joback Method
hfus	56.21	kJ/mol	Joback Method
hvap	93.57	kJ/mol	Joback Method
log10ws	-7.16		Crippen Method
logp	6.402		Crippen Method
mcvol	302.110	ml/mol	McGowan Method
pc	1348.67	kPa	Joback Method
rinpol	2814.00		NIST Webbook
rinpol	2814.00		NIST Webbook
tb	944.77	K	Joback Method
tc	1165.05	K	Joback Method
tf	596.87	K	Joback Method
vc	1.167	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	863.64	J/mol×K	944.77	Joback Method
cpg	875.57	J/mol×K	981.48	Joback Method
cpg	886.43	J/mol×K	1018.20	Joback Method
cpg	896.26	J/mol×K	1054.91	Joback Method
cpg	905.10	J/mol×K	1091.63	Joback Method
cpg	912.97	J/mol×K	1128.34	Joback Method
cpg	919.92	J/mol×K	1165.05	Joback Method
dvisc	0.0002609	Pa×s	596.87	Joback Method

dvisc	0.0001621	Pa×s	654.85	Joback Method
dvisc	0.0001089	Pa×s	712.84	Joback Method
dvisc	0.0000776	Pa×s	770.82	Joback Method
dvisc	0.0000580	Pa×s	828.80	Joback Method
dvisc	0.0000451	Pa×s	886.79	Joback Method
dvisc	0.0000361	Pa×s	944.77	Joback Method

Sources

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=U391103&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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