Succinic acid, 4-chloro-3-methylphenyl oct-1-en-3-yl ester

Inchi: InChI=1S/C19H25ClO4/c1-4-6-7-8-15(5-2)23-18(21)11-12-19(22)24-16-9-10-17(20)14(3)

InchiKey: PIMDWENCXPFRBC-UHFFFAOYSA-N

Formula: C19H25ClO4

SMILES: C=CC(CCCCC)OC(=O)CCC(=O)Oc1ccc(Cl)c(C)c1

Mol. weight [g/mol]: 352.85

Physical Properties

Property code	Value	Unit	Source
gf	-192.12	kJ/mol	Joback Method
hf	-607.09	kJ/mol	Joback Method
hfus	43.20	kJ/mol	Joback Method
hvap	83.13	kJ/mol	Joback Method
log10ws	-5.96		Crippen Method
logp	5.012		Crippen Method
mcvol	277.630	ml/mol	McGowan Method
pc	1439.16	kPa	Joback Method
rinpol	2513.00		NIST Webbook
tb	857.01	K	Joback Method
tc	1065.79	K	Joback Method
tf	512.83	K	Joback Method
vc	1.063	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	818.44	J/mol×K	857.01	Joback Method
cpg	879.17	J/mol×K	1031.00	Joback Method
cpg	869.14	J/mol×K	996.20	Joback Method
cpg	858.08	J/mol×K	961.40	Joback Method
cpg	845.95	J/mol×K	926.60	Joback Method
cpg	832.75	J/mol×K	891.81	Joback Method
cpg	888.18	J/mol×K	1065.79	Joback Method
dvisc	0.0000543	Pa×s	857.01	Joback Method
dvisc	0.0000693	Pa×s	799.65	Joback Method

dvisc	0.0000918	Pa×s	742.28	Joback Method
dvisc	0.0001274	Pa×s	684.92	Joback Method
dvisc	0.0001879	Pa×s	627.56	Joback Method
dvisc	0.0002997	Pa×s	570.19	Joback Method
dvisc	0.0005305	Pa×s	512.83	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=U391323&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