Succinic acid, 3-chlorophenyl hex-5-en-1-yl ester

Inchi: InChI=1S/C16H19ClO4/c1-2-3-4-5-11-20-15(18)9-10-16(19)21-14-8-6-7-13(17)12-14/h2,

InchiKey: SDCSWBKWDCOCGA-UHFFFAOYSA-N

Formula: C16H19ClO4

SMILES: C=CCCCCOC(=O)CCC(=O)Oc1cccc(Cl)c1

Mol. weight [g/mol]: 310.77

Physical Properties

Property code	Value	Unit	Source
gf	-205.31	kJ/mol	Joback Method
hf	-528.42	kJ/mol	Joback Method
hfus	39.34	kJ/mol	Joback Method
hvap	76.18	kJ/mol	Joback Method
log10ws	-4.54		Crippen Method
logp	3.925		Crippen Method
mcvol	235.360	ml/mol	McGowan Method
pc	1824.72	kPa	Joback Method
rinpol	2284.00		NIST Webbook
rinpol	2284.00		NIST Webbook
tb	783.83	K	Joback Method
tc	992.06	K	Joback Method
tf	481.50	K	Joback Method
vc	0.901	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	649.42	J/mol×K	783.83	Joback Method
cpg	707.29	J/mol×K	957.35	Joback Method
cpg	697.57	J/mol×K	922.65	Joback Method
cpg	686.95	J/mol×K	887.94	Joback Method
cpg	675.39	J/mol×K	853.24	Joback Method
cpg	662.89	J/mol×K	818.53	Joback Method
cpg	716.12	J/mol×K	992.06	Joback Method
dvisc	0.0000881	Pa×s	783.83	Joback Method

dvisc	0.0001110	Pa×s	733.44	Joback Method
dvisc	0.0001448	Pa×s	683.05	Joback Method
dvisc	0.0001970	Pa×s	632.66	Joback Method
dvisc	0.0002828	Pa×s	582.28	Joback Method
dvisc	0.0004347	Pa×s	531.89	Joback Method
dvisc	0.0007310	Pa×s	481.50	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U391287&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