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

Inchi: InChI=1S/C21H29ClO4/c1-3-4-5-6-7-8-9-10-15-25-20(23)13-14-21(24)26-18-11-12-19(22

InchiKey: DHGLFRHRFNOHFR-BQYQJAHWSA-N

Formula: C21H29ClO4

SMILES: CCCCCC=CCCCOC(=O)CCC(=O)Oc1ccc(Cl)c(C)c1

Mol. weight [g/mol]: 380.91

Physical Properties

Property code	Value	Unit	Source
gf	-180.46	kJ/mol	Joback Method
hf	-651.30	kJ/mol	Joback Method
hfus	53.38	kJ/mol	Joback Method
hvap	88.60	kJ/mol	Joback Method
log10ws	-6.69		Crippen Method
logp	5.794		Crippen Method
mcvol	305.810	ml/mol	McGowan Method
pc	1252.15	kPa	Joback Method
rinpol	2791.00		NIST Webbook
rinpol	2791.00		NIST Webbook
tb	910.69	K	Joback Method
tc	1121.82	K	Joback Method
tf	547.05	K	Joback Method
vc	1.181	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	935.73	J/mol×K	910.69	Joback Method
cpg	950.43	J/mol×K	945.88	Joback Method
cpg	964.01	J/mol×K	981.07	Joback Method
cpg	976.50	J/mol×K	1016.26	Joback Method
cpg	987.93	J/mol×K	1051.45	Joback Method
cpg	998.36	J/mol×K	1086.64	Joback Method
cpg	1007.80	J/mol×K	1121.82	Joback Method
dvisc	0.0003504	Pa×s	547.05	Joback Method

dvisc	0.0001990	Pa×s	607.66	Joback Method
dvisc	0.0001252	Pa×s	668.26	Joback Method
dvisc	0.0000851	Pa×s	728.87	Joback Method
dvisc	0.0000614	Pa×s	789.48	Joback Method
dvisc	0.0000464	Pa×s	850.08	Joback Method
dvisc	0.0000364	Pa×s	910.69	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=U391179&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