Succinic acid, 2-methylpent-3-yl 10-chlorodecyl ester

Inchi: InChI=1S/C20H37ClO4/c1-4-18(17(2)3)25-20(23)14-13-19(22)24-16-12-10-8-6-5-7-9-11-

InchiKey: VPWOCPSLSSZCAD-UHFFFAOYSA-N

Formula: C20H37ClO4

SMILES: CCC(OC(=O)CCC(=O)OCCCCCCCCCCCCl)C(C)C

Mol. weight [g/mol]: 376.96

Physical Properties

Property code	Value	Unit	Source
gf	-367.13	kJ/mol	Joback Method
hf	-972.03	kJ/mol	Joback Method
hfus	50.28	kJ/mol	Joback Method
hvap	82.03	kJ/mol	Joback Method
log10ws	-5.94		Crippen Method
logp	5.647		Crippen Method
mcvol	319.780	ml/mol	McGowan Method
pc	1063.10	kPa	Joback Method
rinpol	2553.00		NIST Webbook
rinpol	2553.00		NIST Webbook
tb	846.13	K	Joback Method
tc	1038.10	K	Joback Method
tf	459.40	K	Joback Method
vc	1.240	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1001.79	J/mol×K	846.13	Joback Method
cpg	1077.95	J/mol×K	1006.10	Joback Method
cpg	1064.88	J/mol×K	974.11	Joback Method
cpg	1050.75	J/mol×K	942.11	Joback Method
cpg	1035.54	J/mol×K	910.12	Joback Method
cpg	1019.23	J/mol×K	878.12	Joback Method
cpg	1089.97	J/mol×K	1038.10	Joback Method
dvisc	0.0000383	Pa×s	846.13	Joback Method

dvisc	0.0000522	Pa×s	781.67	Joback Method
dvisc	0.0000752	Pa×s	717.22	Joback Method
dvisc	0.0001164	Pa×s	652.76	Joback Method
dvisc	0.0001984	Pa×s	588.31	Joback Method
dvisc	0.0003855	Pa×s	523.86	Joback Method
dvisc	0.0009028	Pa×s	459.40	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U390406&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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