Succinic acid, 8-chlorooctyl 2,4-dimethylpent-3-yl ester

Inchi: InChI=1S/C19H35ClO4/c1-15(2)19(16(3)4)24-18(22)12-11-17(21)23-14-10-8-6-5-7-9-13-

InchiKey: OULQSKGXULWUSP-UHFFFAOYSA-N

Formula: C19H35ClO4

SMILES: CC(C)C(OC(=O)CCC(=O)OCCCCCCCCCCl)C(C)C

Mol. weight [g/mol]: 362.93

Physical Properties

Property code	Value	Unit	Source
gf	-377.99	kJ/mol	Joback Method
hf	-956.67	kJ/mol	Joback Method
hfus	44.17	kJ/mol	Joback Method
hvap	79.42	kJ/mol	Joback Method
log10ws	-5.28		Crippen Method
logp	5.113		Crippen Method
mcvol	305.690	ml/mol	McGowan Method
pc	1139.03	kPa	Joback Method
rinpol	2550.00		NIST Webbook
rinpol	2550.00		NIST Webbook
tb	822.81	K	Joback Method
tc	1013.05	K	Joback Method
tf	433.13	K	Joback Method
vc	1.179	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	942.04	J/mol×K	822.81	Joback Method
cpg	959.23	J/mol×K	854.52	Joback Method
cpg	975.33	J/mol×K	886.22	Joback Method
cpg	990.36	J/mol×K	917.93	Joback Method
cpg	1004.36	J/mol×K	949.64	Joback Method
cpg	1017.32	J/mol×K	981.34	Joback Method
cpg	1029.28	J/mol×K	1013.05	Joback Method
dvisc	0.0012389	Pa×s	433.13	Joback Method

dvisc	0.0004842	Pa×s	498.08	Joback Method
dvisc	0.0002350	Pa×s	563.02	Joback Method
dvisc	0.0001325	Pa×s	627.97	Joback Method
dvisc	0.0000831	Pa×s	692.92	Joback Method
dvisc	0.0000565	Pa×s	757.86	Joback Method
dvisc	0.0000408	Pa×s	822.81	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U390513&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