Succinic acid, di(7-chloroheptyl) ester

Inchi: InChI=1S/C18H32Cl2O4/c19-13-7-3-1-5-9-15-23-17(21)11-12-18(22)24-16-10-6-2-4-8-14
InchiKey: UXOGQRLZUIJEBP-UHFFFAOYSA-N
Formula: C18H32Cl2O4
SMILES: O=C(CCC(=O)OCCCCCCCCl)OCCCCCCCCl
Mol. weight [g/mol]: 383.35

Physical Properties

Property code	Value	Unit	Source
gf	-391.02	kJ/mol	Joback Method
hf	-935.93	kJ/mol	Joback Method
hfus	56.34	kJ/mol	Joback Method
hvap	82.74	kJ/mol	Joback Method
log10ws	-5.39		Crippen Method
logp	5.232		Crippen Method
mcvol	303.840	ml/mol	McGowan Method
pc	1166.43	kPa	Joback Method
rinpol	2755.00		NIST Webbook
rinpol	2755.00		NIST Webbook
tb	838.68	K	Joback Method
tc	1029.87	K	Joback Method
tf	496.78	K	Joback Method
vc	1.190	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	910.58	J/mol×K	838.68	Joback Method
cpg	926.20	J/mol×K	870.54	Joback Method
cpg	940.82	J/mol×K	902.41	Joback Method
cpg	954.45	J/mol×K	934.27	Joback Method
cpg	967.12	J/mol×K	966.14	Joback Method
cpg	978.84	J/mol×K	998.00	Joback Method
cpg	989.64	J/mol×K	1029.87	Joback Method
dvisc	0.0006569	Pa×s	496.78	Joback Method

dvisc	0.0003467	Pa×s	553.76	Joback Method
dvisc	0.0002062	Pa×s	610.75	Joback Method
dvisc	0.0001340	Pa×s	667.73	Joback Method
dvisc	0.0000932	Pa×s	724.71	Joback Method
dvisc	0.0000683	Pa×s	781.70	Joback Method
dvisc	0.0000523	Pa×s	838.68	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U382411&Units=SI

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