Succinic acid, di(8-chloroctyl) ester

Inchi: InChI=1S/C20H36Cl2O4/c21-15-9-5-1-3-7-11-17-25-19(23)13-14-20(24)26-18-12-8-4-2-6-10-16-22

InchiKey: WSNMNGSFXRGKBL-UHFFFAOYSA-N

Formula: C20H36Cl2O4

SMILES: O=C(CCC(=O)OCCCCCCCCCl)OCCCCCCCCCl

Mol. weight [g/mol]: 411.40

Physical Properties

Property code	Value	Unit	Source
gf	-374.18	kJ/mol	Joback Method
hf	-977.21	kJ/mol	Joback Method
hfus	61.52	kJ/mol	Joback Method
hvap	87.20	kJ/mol	Joback Method
log10ws	-6.23		Crippen Method
logp	6.012		Crippen Method
mcvol	332.020	ml/mol	McGowan Method
pc	1027.28	kPa	Joback Method
rinpol	3011.00		NIST Webbook
rinpol	3011.00		NIST Webbook
tb	884.44	K	Joback Method
tc	1082.98	K	Joback Method
tf	519.32	K	Joback Method
vc	1.302	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1030.28	J/mol×K	884.44	Joback Method
cpg	1046.71	J/mol×K	917.53	Joback Method
cpg	1062.00	J/mol×K	950.62	Joback Method
cpg	1076.16	J/mol×K	983.71	Joback Method
cpg	1089.23	J/mol×K	1016.80	Joback Method
cpg	1101.23	J/mol×K	1049.89	Joback Method
cpg	1112.18	J/mol×K	1082.98	Joback Method
dvisc	0.0005197	Pa×s	519.32	Joback Method

dvisc	0.0002683	Pa×s	580.17	Joback Method
dvisc	0.0001571	Pa×s	641.03	Joback Method
dvisc	0.0001009	Pa×s	701.88	Joback Method
dvisc	0.0000695	Pa×s	762.73	Joback Method
dvisc	0.0000507	Pa×s	823.59	Joback Method
dvisc	0.0000385	Pa×s	884.44	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=U349298&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