

Succinic acid, 8-chlorooctyl decyl ester

Inchi: InChI=1S/C22H41ClO4/c1-2-3-4-5-6-8-11-14-19-26-21(24)16-17-22(25)27-20-15-12-9-7
InchiKey: CWSIPAVSNOPMPI-UHFFFAOYSA-N
Formula: C22H41ClO4
SMILES: CCCCCCCCCCOC(=O)CCC(=O)OCCCCCCCCCI
Mol. weight [g/mol]: 405.01

Physical Properties

Property code	Value	Unit	Source
gf	-345.41	kJ/mol	Joback Method
hf	-1002.75	kJ/mol	Joback Method
hfus	62.51	kJ/mol	Joback Method
hvap	87.26	kJ/mol	Joback Method
log10ws	-6.91		Crippen Method
logp	6.573		Crippen Method
mvol	347.960	ml/mol	McGowan Method
pc	932.35	kPa	Joback Method
rinpol	2844.00		NIST Webbook
rinpol	2844.00		NIST Webbook
tb	892.77	K	Joback Method
tc	1093.16	K	Joback Method
tf	511.94	K	Joback Method
vc	1.365	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1123.47	J/molxK	892.77	Joback Method
cpg	1202.40	J/molxK	1059.76	Joback Method
cpg	1189.02	J/molxK	1026.36	Joback Method
cpg	1174.47	J/molxK	992.96	Joback Method
cpg	1158.72	J/molxK	959.57	Joback Method
cpg	1141.72	J/molxK	926.17	Joback Method
cpg	1214.62	J/molxK	1093.16	Joback Method
dvisc	0.0000337	Paxs	892.77	Joback Method

dvisc	0.0000446	Paxs	829.30	Joback Method
dvisc	0.0000620	Paxs	765.83	Joback Method
dvisc	0.0000914	Paxs	702.36	Joback Method
dvisc	0.0001456	Paxs	638.88	Joback Method
dvisc	0.0002569	Paxs	575.41	Joback Method
dvisc	0.0005220	Paxs	511.94	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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=U349293&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

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