

Succinic acid, 10-chlorodecyl propyl ester

Inchi:	InChI=1S/C17H31ClO4/c1-2-14-21-16(19)11-12-17(20)22-15-10-8-6-4-3-5-7-9-13-18/h2-
InchiKey:	TWAYUEDEMTZMQZ-UHFFFAOYSA-N
Formula:	C17H31ClO4
SMILES:	CCCOC(=O)CCC(=O)OCCCCCCCCCCCCI
Mol. weight [g/mol]:	334.88

Physical Properties

Property code	Value	Unit	Source
gf	-387.51	kJ/mol	Joback Method
hf	-899.55	kJ/mol	Joback Method
hfus	49.56	kJ/mol	Joback Method
hvap	76.13	kJ/mol	Joback Method
log10ws	-4.82		Crippen Method
logp	4.623		Crippen Method
mvol	277.510	ml/mol	McGowan Method
pc	1280.08	kPa	Joback Method
rinpol	2356.00		NIST Webbook
rinpol	2356.00		NIST Webbook
tb	778.37	K	Joback Method
tc	961.19	K	Joback Method
tf	455.59	K	Joback Method
vc	1.085	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	822.48	J/molxK	778.37	Joback Method
cpg	838.60	J/molxK	808.84	Joback Method
cpg	853.83	J/molxK	839.31	Joback Method
cpg	868.17	J/molxK	869.78	Joback Method
cpg	881.62	J/molxK	900.25	Joback Method
cpg	894.21	J/molxK	930.72	Joback Method
cpg	905.95	J/molxK	961.19	Joback Method
dvisc	0.0009196	Paxs	455.59	Joback Method

dvisc	0.0004784	Paxs	509.39	Joback Method
dvisc	0.0002820	Paxs	563.18	Joback Method
dvisc	0.0001823	Paxs	616.98	Joback Method
dvisc	0.0001263	Paxs	670.78	Joback Method
dvisc	0.0000925	Paxs	724.57	Joback Method
dvisc	0.0000707	Paxs	778.37	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=U349183&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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