Succinic acid, 8-chlorooctyl pent-4-en-1-yl ester

Inchi: InChI=1S/C17H29ClO4/c1-2-3-9-14-21-16(19)11-12-17(20)22-15-10-7-5-4-6-8-13-18/h2H

InchiKey: OAPJSLDFBCKHJO-UHFFFAOYSA-N

Formula: C17H29ClO4

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

Mol. weight [g/mol]: 332.86

Physical Properties

Property code	Value	Unit	Source
gf	-299.67	kJ/mol	Joback Method
hf	-774.12	kJ/mol	Joback Method
hfus	48.28	kJ/mol	Joback Method
hvap	75.46	kJ/mol	Joback Method
log10ws	-4.67		Crippen Method
logp	4.399		Crippen Method
mcvol	273.210	ml/mol	McGowan Method
pc	1319.43	kPa	Joback Method
rinpol	2371.00		NIST Webbook
rinpol	2371.00		NIST Webbook
tb	775.05	K	Joback Method
tc	958.92	K	Joback Method
tf	453.83	K	Joback Method
vc	1.065	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	796.50	J/mol×K	775.05	Joback Method
cpg	812.10	J/mol×K	805.70	Joback Method
cpg	826.81	J/mol×K	836.34	Joback Method
cpg	840.67	J/mol×K	866.99	Joback Method
cpg	853.67	J/mol×K	897.63	Joback Method
cpg	865.85	J/mol×K	928.28	Joback Method
cpg	877.20	J/mol×K	958.92	Joback Method
dvisc	0.0009301	Pa×s	453.83	Joback Method

dvisc	0.0004903	Pa×s	507.37	Joback Method
dvisc	0.0002921	Pa×s	560.90	Joback Method
dvisc	0.0001904	Pa×s	614.44	Joback Method
dvisc	0.0001330	Pa×s	667.98	Joback Method
dvisc	0.0000979	Pa×s	721.51	Joback Method
dvisc	0.0000752	Pa×s	775.05	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=U391075&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