Succinic acid, monochloride pent-4-enyl ester

Inchi: InChI=1S/C9H13ClO3/c1-2-3-4-7-13-9(12)6-5-8(10)11/h2H,1,3-7H2
InchiKey: PHRBDCQEAPUJIR-UHFFFAOYSA-N
Formula: C9H13ClO3
SMILES: C=CCCCOC(=O)CCC(=O)Cl
Mol. weight [g/mol]: 204.65

Physical Properties

Property code	Value	Unit	Source
gf	-262.03	kJ/mol	Joback Method
hf	-476.78	kJ/mol	Joback Method
hfus	26.37	kJ/mol	Joback Method
hvap	55.24	kJ/mol	Joback Method
log10ws	-2.23		Crippen Method
logp	2.041		Crippen Method
mcvol	154.620	ml/mol	McGowan Method
pc	2581.96	kPa	Joback Method
rinpol	1362.00		NIST Webbook
tb	569.59	K	Joback Method
tc	760.52	K	Joback Method
tf	341.44	K	Joback Method
vc	0.600	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	350.68	J/mol×K	569.59	Joback Method
cpg	401.74	J/mol×K	728.70	Joback Method
cpg	392.59	J/mol×K	696.88	Joback Method
cpg	382.92	J/mol×K	665.06	Joback Method
cpg	372.72	J/mol×K	633.23	Joback Method
cpg	361.98	J/mol×K	601.41	Joback Method
cpg	410.38	J/mol×K	760.52	Joback Method
dvisc	0.0002590	Pa×s	569.59	Joback Method
dvisc	0.0003279	Pa×s	531.56	Joback Method

dvisc	0.0004305	Pa×s	493.54	Joback Method
dvisc	0.0005916	Pa×s	455.51	Joback Method
dvisc	0.0008612	Pa×s	417.49	Joback Method
dvisc	0.0013519	Pa×s	379.46	Joback Method
dvisc	0.0023462	Pa×s	341.44	Joback Method

Sources

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=U353386&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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