Succinic acid, monochloride pent-4-en-2-yl ester

Inchi: InChI=1S/C9H13ClO3/c1-3-4-7(2)13-9(12)6-5-8(10)11/h3,7H,1,4-6H2,2H3
InchiKey: LBRRWHKGDPAWTB-UHFFFAOYSA-N
Formula: C9H13ClO3
SMILES: C=CCC(C)OC(=O)CCC(=O)Cl
Mol. weight [g/mol]: 204.65

Physical Properties

Property code	Value	Unit	Source
gf	-264.47	kJ/mol	Joback Method
hf	-482.06	kJ/mol	Joback Method
hfus	22.85	kJ/mol	Joback Method
hvap	54.86	kJ/mol	Joback Method
log10ws	-2.35		Crippen Method
logp	2.040		Crippen Method
mcvol	154.620	ml/mol	McGowan Method
pc	2603.08	kPa	Joback Method
rinpol	1275.00		NIST Webbook
rinpol	1275.00		NIST Webbook
tb	569.15	K	Joback Method
tc	763.87	K	Joback Method
tf	326.44	K	Joback Method
vc	0.594	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	351.08	J/mol×K	569.15	Joback Method
cpg	362.66	J/mol×K	601.60	Joback Method
cpg	373.65	J/mol×K	634.06	Joback Method
cpg	384.07	J/mol×K	666.51	Joback Method
cpg	393.93	J/mol×K	698.96	Joback Method
cpg	403.24	J/mol×K	731.42	Joback Method
cpg	412.01	J/mol×K	763.87	Joback Method
dvisc	0.0029667	Pa×s	326.44	Joback Method

dvisc	0.0015530	Pa×s	366.89	Joback Method
dvisc	0.0009245	Pa×s	407.34	Joback Method
dvisc	0.0006044	Pa×s	447.79	Joback Method
dvisc	0.0004240	Pa×s	488.25	Joback Method
dvisc	0.0003140	Pa×s	528.70	Joback Method
dvisc	0.0002427	Pa×s	569.15	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U353459&Units=SI
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

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