Succinic acid, ethyl pent-4-enyl ester

Inchi: InChI=1S/C11H18O4/c1-3-5-6-9-15-11(13)8-7-10(12)14-4-2/h3H,1,4-9H2,2H3
InchiKey: RIQAGANHRFKUGX-UHFFFAOYSA-N
Formula: C11H18O4
SMILES: C=CCCCOC(=O)CCC(=O)OCC
Mol. weight [g/mol]: 214.26

Physical Properties

Property code	Value	Unit	Source
gf	-338.26	kJ/mol	Joback Method
hf	-634.54	kJ/mol	Joback Method
hfus	28.54	kJ/mol	Joback Method
hvap	57.72	kJ/mol	Joback Method
log10ws	-2.01		Crippen Method
logp	1.839		Crippen Method
mcvol	176.430	ml/mol	McGowan Method
pc	2183.60	kPa	Joback Method
rinpol	1470.00		NIST Webbook
rinpol	1470.00		NIST Webbook
tb	600.34	K	Joback Method
tc	781.82	K	Joback Method
tf	356.29	K	Joback Method
vc	0.680	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	443.94	J/mol×K	600.34	Joback Method
cpg	504.78	J/mol×K	751.57	Joback Method
cpg	493.78	J/mol×K	721.33	Joback Method
cpg	482.19	J/mol×K	691.08	Joback Method
cpg	470.03	J/mol×K	660.83	Joback Method
cpg	457.28	J/mol×K	630.59	Joback Method
cpg	515.20	J/mol×K	781.82	Joback Method
dvisc	0.0001769	Pa×s	600.34	Joback Method

dvisc	0.0002258	Pa×s	559.66	Joback Method
dvisc	0.0002995	Pa×s	518.99	Joback Method
dvisc	0.0004169	Pa×s	478.31	Joback Method
dvisc	0.0006170	Pa×s	437.64	Joback Method
dvisc	0.0009896	Pa×s	396.96	Joback Method
dvisc	0.0017678	Pa×s	356.29	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=U353367&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