Lactic acid, cyclohexyl ester

Inchi: InChI=1S/C9H16O3/c1-7(10)9(11)12-8-5-3-2-4-6-8/h7-8,10H,2-6H2,1H3
InchiKey: MLXVQJMYSKICMT-UHFFFAOYSA-N
Formula: C9H16O3
SMILES: CC(O)C(=O)OC1CCCCC1
Mol. weight [g/mol]: 172.22

Physical Properties

Property code	Value	Unit	Source
gf	-323.83	kJ/mol	Joback Method
hf	-577.08	kJ/mol	Joback Method
hfus	14.25	kJ/mol	Joback Method
hvap	61.50	kJ/mol	Joback Method
log10ws	-1.83		Crippen Method
logp	1.243		Crippen Method
mcvol	140.120	ml/mol	McGowan Method
pc	3337.38	kPa	Joback Method
tb	592.90	K	Joback Method
tc	791.87	K	Joback Method
tf	316.55	K	Joback Method
vc	0.509	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	368.93	J/mol×K	592.90	Joback Method
cpg	383.42	J/mol×K	626.06	Joback Method
cpg	397.13	J/mol×K	659.22	Joback Method
cpg	410.08	J/mol×K	692.38	Joback Method
cpg	422.26	J/mol×K	725.54	Joback Method
cpg	433.70	J/mol×K	758.71	Joback Method
cpg	444.40	J/mol×K	791.87	Joback Method
dvisc	0.0128857	Pa×s	316.55	Joback Method
dvisc	0.0032827	Pa×s	362.61	Joback Method
dvisc	0.0011382	Pa×s	408.67	Joback Method

dvisc	0.0004891	Pa×s	454.73	Joback Method
dvisc	0.0002455	Pa×s	500.78	Joback Method
dvisc	0.0001384	Pa×s	546.84	Joback Method
dvisc	0.0000853	Pa×s	592.90	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=B6006689&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume