Carbonic acid, ethyl cyclohexyl ester

Inchi: InChI=1S/C9H16O3/c1-2-11-9(10)12-8-6-4-3-5-7-8/h8H,2-7H2,1H3
InchiKey: XSSAWOIEQNZRDP-UHFFFAOYSA-N
Formula: C9H16O3
SMILES: CCOC(=O)OC1CCCCC1
Mol. weight [g/mol]: 172.22

Physical Properties

Property code	Value	Unit	Source
gf	-289.57	kJ/mol	Joback Method
hf	-551.79	kJ/mol	Joback Method
hfus	14.88	kJ/mol	Joback Method
hvap	47.62	kJ/mol	Joback Method
log10ws	-2.52		Crippen Method
logp	2.492		Crippen Method
mcvol	140.120	ml/mol	McGowan Method
pc	2928.17	kPa	Joback Method
rinpol	1219.00		NIST Webbook
tb	523.58	K	Joback Method
tc	730.09	K	Joback Method
tf	292.96	K	Joback Method
vc	0.514	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	334.41	J/mol×K	523.58	Joback Method
cpg	409.89	J/mol×K	695.68	Joback Method
cpg	396.36	J/mol×K	661.26	Joback Method
cpg	382.04	J/mol×K	626.84	Joback Method
cpg	366.95	J/mol×K	592.42	Joback Method
cpg	351.07	J/mol×K	558.00	Joback Method
cpg	422.62	J/mol×K	730.09	Joback Method
dvisc	0.0002146	Pa×s	523.58	Joback Method
dvisc	0.0002806	Pa×s	485.14	Joback Method

dvisc	0.0003842	Pa×s	446.71	Joback Method
dvisc	0.0005583	Pa×s	408.27	Joback Method
dvisc	0.0008766	Pa×s	369.83	Joback Method
dvisc	0.0015283	Pa×s	331.40	Joback Method
dvisc	0.0030831	Pa×s	292.96	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=U357913&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