Ethyl pent-4-enyl carbonate

Inchi: InChI=1S/C8H14O3/c1-3-5-6-7-11-8(9)10-4-2/h3H,1,4-7H2,2H3
InchiKey: MWNYYOIZNRGRNR-UHFFFAOYSA-N
Formula: C8H14O3
SMILES: C=CCCCOC(=O)OCC
Mol. weight [g/mol]: 158.19

Physical Properties

Property code	Value	Unit	Source
gf	-234.60	kJ/mol	Joback Method
hf	-460.04	kJ/mol	Joback Method
hfus	19.17	kJ/mol	Joback Method
hvap	44.30	kJ/mol	Joback Method
log10ws	-1.95		Crippen Method
logp	2.126		Crippen Method
mcvol	132.590	ml/mol	McGowan Method
pc	2726.86	kPa	Joback Method
rinpol	1066.00		NIST Webbook
rinpol	1066.00		NIST Webbook
tb	477.83	K	Joback Method
tc	655.82	K	Joback Method
tf	272.55	K	Joback Method
vc	0.506	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	286.54	J/mol×K	477.83	Joback Method
cpg	339.92	J/mol×K	626.16	Joback Method
cpg	330.03	J/mol×K	596.49	Joback Method
cpg	319.74	J/mol×K	566.83	Joback Method
cpg	309.06	J/mol×K	537.16	Joback Method
cpg	298.00	J/mol×K	507.50	Joback Method
cpg	349.41	J/mol×K	655.82	Joback Method
dvisc	0.0002160	Pa×s	477.83	Joback Method

dvisc	0.0002747	Pa×s	443.62	Joback Method
dvisc	0.0003636	Pa×s	409.40	Joback Method
dvisc	0.0005067	Pa×s	375.19	Joback Method
dvisc	0.0007545	Pa×s	340.98	Joback Method
dvisc	0.0012279	Pa×s	306.76	Joback Method
dvisc	0.0022582	Pa×s	272.55	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=U373784&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