

Carbonic acid, ethyl 2-propenyl ester

Other names:	Carbonic acid, allyl ethyl ester Allylethyl carbonate
Inchi:	InChI=1S/C6H10O3/c1-3-5-9-6(7)8-4-2/h3H,1,4-5H2,2H3
InchiKey:	BGSFCOHRQUBESL-UHFFFAOYSA-N
Formula:	C6H10O3
SMILES:	C=CCOC(=O)OCC
Mol. weight [g/mol]:	130.14
CAS:	1469-70-1

Physical Properties

Property code	Value	Unit	Source
gf	-251.44	kJ/mol	Joback Method
hf	-418.76	kJ/mol	Joback Method
hfus	13.99	kJ/mol	Joback Method
hvap	39.85	kJ/mol	Joback Method
log10ws	-1.12		Crippen Method
logp	1.345		Crippen Method
mvol	104.410	ml/mol	McGowan Method
pc	3368.44	kPa	Joback Method
tb	432.07	K	Joback Method
tc	613.11	K	Joback Method
tf	250.01	K	Joback Method
vc	0.395	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	206.24	J/mol×K	432.07	Joback Method
cpg	248.69	J/mol×K	582.94	Joback Method
cpg	240.75	J/mol×K	552.77	Joback Method
cpg	232.52	J/mol×K	522.59	Joback Method
cpg	224.02	J/mol×K	492.42	Joback Method
cpg	215.26	J/mol×K	462.24	Joback Method
cpg	256.36	J/mol×K	613.11	Joback Method

dvisc	0.0002380	Paxs	432.07	Joback Method
dvisc	0.0002988	Paxs	401.73	Joback Method
dvisc	0.0003892	Paxs	371.38	Joback Method
dvisc	0.0005316	Paxs	341.04	Joback Method
dvisc	0.0007714	Paxs	310.70	Joback Method
dvisc	0.0012136	Paxs	280.35	Joback Method
dvisc	0.0021311	Paxs	250.01	Joback Method

Sources

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=C1469701&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307i

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

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