Cyclopropanecarboxaldehyde

Other names: Cyclopropylcarboxaldehyde
Inchi: InChI=1S/C4H6O/c5-3-4-1-2-4/h3-4H,1-2H2
InchiKey: JMYVMOUINOAAPA-UHFFFAOYSA-N
Formula: C4H6O
SMILES: O=CC1CC1
Mol. weight [g/mol]: 70.09
CAS: 1489-69-6

Physical Properties

Property code	Value	Unit	Source
gf	-55.97	kJ/mol	Joback Method
hf	-138.67	kJ/mol	Joback Method
hfus	6.54	kJ/mol	Joback Method
hvap	31.13	kJ/mol	Joback Method
log10ws	-0.43		Crippen Method
logp	0.595		Crippen Method
mcvol	57.930	ml/mol	McGowan Method
pc	5116.65	kPa	Joback Method
rinpol	617.00		NIST Webbook
tb	346.32	K	Joback Method
tc	535.49	K	Joback Method
tf	194.78	K	Joback Method
vc	0.234	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	93.49	J/mol×K	346.32	Joback Method
cpg	101.91	J/mol×K	377.85	Joback Method
cpg	109.82	J/mol×K	409.38	Joback Method
cpg	117.25	J/mol×K	440.91	Joback Method
cpg	124.22	J/mol×K	472.43	Joback Method
cpg	130.76	J/mol×K	503.96	Joback Method
cpg	136.89	J/mol×K	535.49	Joback Method

dvisc	0.0007911	Pa×s	194.78	Joback Method
dvisc	0.0006384	Pa×s	220.04	Joback Method
dvisc	0.0005385	Pa×s	245.29	Joback Method
dvisc	0.0004688	Pa×s	270.55	Joback Method
dvisc	0.0004180	Pa×s	295.81	Joback Method
dvisc	0.0003794	Pa×s	321.06	Joback Method
dvisc	0.0003493	Pa×s	346.32	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C1489696&Units=SI
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

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