

Cyclopropane, 2-methylene-1-propionyl-

Other names:	2-Methylene-1-propionylcyclopropane
Inchi:	InChI=1S/C7H10O/c1-3-7(8)6-4-5(6)2/h6H,2-4H2,1H3
InchiKey:	ADUPFGPEVZQISV-UHFFFAOYSA-N
Formula:	C7H10O
SMILES:	C=C1CC1C(=O)CC
Mol. weight [g/mol]:	110.15

Physical Properties

Property code	Value	Unit	Source
gf	-7.03	kJ/mol	Joback Method
hf	-143.35	kJ/mol	Joback Method
hfus	12.46	kJ/mol	Joback Method
hvap	37.99	kJ/mol	Joback Method
log10ws	-1.54		Crippen Method
logp	1.542		Crippen Method
mcvol	95.900	ml/mol	McGowan Method
pc	3551.53	kPa	Joback Method
rinpol	938.00		NIST Webbook
rinpol	938.00		NIST Webbook
tb	419.33	K	Joback Method
tc	612.58	K	Joback Method
tf	250.20	K	Joback Method
vc	0.374	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	186.52	J/mol×K	419.33	Joback Method
cpg	236.28	J/mol×K	580.37	Joback Method
cpg	227.41	J/mol×K	548.16	Joback Method
cpg	218.02	J/mol×K	515.96	Joback Method
cpg	208.10	J/mol×K	483.75	Joback Method
cpg	197.60	J/mol×K	451.54	Joback Method
cpg	244.67	J/mol×K	612.58	Joback Method

dvisc	0.0004825	Paxs	419.33	Joback Method
dvisc	0.0005301	Paxs	391.14	Joback Method
dvisc	0.0005910	Paxs	362.95	Joback Method
dvisc	0.0006711	Paxs	334.76	Joback Method
dvisc	0.0007799	Paxs	306.58	Joback Method
dvisc	0.0009345	Paxs	278.39	Joback Method
dvisc	0.0011663	Paxs	250.20	Joback Method

Sources

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=U157081&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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

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