Ethanone, 1-(2-methylcyclopropyl)-

Other names:	Ketone, methyl 2-methylcyclopropyl
	Methyl 2-methylcyclopropyl ketone
	2-Methylcyclopropyl methyl ketone
Inchi:	InChI=1S/C6H10O/c1-4-3-6(4)5(2)7/h4,6H,3H2,1-2H3
InchiKey:	CSEAGYCTZLEZON-UHFFFAOYSA-N
Formula:	C6H10O
SMILES:	CC(=O)C1CC1C
Mol. weight [g/mol]:	98.14
CAS:	930-56-3

Physical Properties

Property code	Value	Unit	Source
gf	-76.24	kJ/mol	Joback Method
hf	-227.29	kJ/mol	Joback Method
hfus	12.10	kJ/mol	Joback Method
hvap	35.30	kJ/mol	Joback Method
ie	9.38	eV	NIST Webbook
log10ws	-1.03		Crippen Method
logp	1.231		Crippen Method
mcvol	86.110	ml/mol	McGowan Method
pc	3745.38	kPa	Joback Method
tb	392.62	K	Joback Method
tc	585.16	K	Joback Method
tf	221.01	K	Joback Method
vc	0.334	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	161.87	J/mol×K	392.62	Joback Method
cpg	173.58	J/mol×K	424.71	Joback Method
cpg	184.68	J/mol×K	456.80	Joback Method
cpg	195.20	J/mol×K	488.89	Joback Method
cpg	205.17	J/mol×K	520.98	Joback Method

cpg	214.61	J/mol×K	553.07	Joback Method
cpg	223.54	J/mol×K	585.16	Joback Method
dvisc	0.0008422	Pa×s	221.01	Joback Method
dvisc	0.0006995	Pa×s	249.61	Joback Method
dvisc	0.0006036	Pa×s	278.21	Joback Method
dvisc	0.0005354	Pa×s	306.81	Joback Method
dvisc	0.0004847	Pa×s	335.42	Joback Method
dvisc	0.0004457	Pa×s	364.02	Joback Method
dvisc	0.0004149	Pa×s	392.62	Joback Method

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C930563&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

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
ie: Ionization energy
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