1-Propanone, 1-cyclohexyl-

Other names:	Ethyl cyclohexyl ketone
	Ketone, cyclohexyl ethyl
	1-Cyclohexyl-1-propanone
	1-cyclohexylpropan-1-one
Inchi:	InChI=1S/C9H16O/c1-2-9(10)8-6-4-3-5-7-8/h8H,2-7H2,1H3
InchiKey:	AMHOPTNGSNYSBL-UHFFFAOYSA-N
Formula:	C9H16O
SMILES:	CCC(=O)C1CCCCC1
Mol. weight [g/mol]:	140.22
CAS:	1123-86-0

Physical Properties

Property code	Value	Unit	Source
chl	-5440.00	kJ/mol	NIST Webbook
gf	-79.57	kJ/mol	Joback Method
hf	-287.35	kJ/mol	Joback Method
hfus	12.50	kJ/mol	Joback Method
hvap	42.80	kJ/mol	Joback Method
log10ws	-2.52		Crippen Method
logp	2.546		Crippen Method
mcvol	128.380	ml/mol	McGowan Method
pc	3038.96	kPa	Joback Method
tb	469.20	K	NIST Webbook
tc	689.04	K	Joback Method
tf	248.50	K	Joback Method
vc	0.478	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	282.21	J/mol×K	478.74	Joback Method
cpg	299.74	J/mol×K	513.79	Joback Method
cpg	316.33	J/mol×K	548.84	Joback Method
cpg	332.02	J/mol×K	583.89	Joback Method

cpg	346.82	J/mol×K	618.94	Joback Method
cpg	360.77	J/mol×K	653.99	Joback Method
cpg	373.89	J/mol×K	689.04	Joback Method
dvisc	0.0060031	Pa×s	248.50	Joback Method
dvisc	0.0026369	Pa×s	286.87	Joback Method
dvisc	0.0014064	Pa×s	325.25	Joback Method
dvisc	0.0008565	Pa×s	363.62	Joback Method
dvisc	0.0005734	Pa×s	401.99	Joback Method
dvisc	0.0004117	Pa×s	440.37	Joback Method
dvisc	0.0003117	Pa×s	478.74	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	361.70	K	2.50	NIST Webbook

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=C1123860&Units=SI

Legend

chl: Standard liquid enthalpy of combustion
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
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume