

2-Propanone, 1-cyclohexylidene-

Other names:	Cyclohexylideneacetone 1-Cyclohexylidene-2-propanone
Inchi:	InChI=1S/C9H14O/c1-8(10)7-9-5-3-2-4-6-9/h7H,2-6H2,1H3
InchiKey:	KVSOBMXTKPYCSG-UHFFFAOYSA-N
Formula:	C9H14O
SMILES:	CC(=O)C=C1CCCCC1
Mol. weight [g/mol]:	138.21
CAS:	874-68-0

Physical Properties

Property code	Value	Unit	Source
gf	-26.40	kJ/mol	Joback Method
hf	-190.98	kJ/mol	Joback Method
hfus	11.75	kJ/mol	Joback Method
hvap	43.90	kJ/mol	Joback Method
log10ws	-2.62		Crippen Method
logp	2.466		Crippen Method
mvol	124.080	ml/mol	McGowan Method
pc	3257.86	kPa	Joback Method
tb	490.05	K	Joback Method
tc	708.11	K	Joback Method
tf	263.10	K	Joback Method
vc	0.463	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	265.82	J/mol×K	490.05	Joback Method
cpg	281.74	J/mol×K	526.39	Joback Method
cpg	296.74	J/mol×K	562.74	Joback Method
cpg	310.83	J/mol×K	599.08	Joback Method
cpg	324.06	J/mol×K	635.42	Joback Method
cpg	336.46	J/mol×K	671.76	Joback Method
cpg	348.08	J/mol×K	708.11	Joback Method

dvisc	0.0048257	Paxs	263.10	Joback Method
dvisc	0.0021782	Paxs	300.93	Joback Method
dvisc	0.0011743	Paxs	338.75	Joback Method
dvisc	0.0007168	Paxs	376.58	Joback Method
dvisc	0.0004787	Paxs	414.40	Joback Method
dvisc	0.0003421	Paxs	452.23	Joback Method
dvisc	0.0002575	Paxs	490.05	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=C874680&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.cheméo.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
hvac:	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

Latest version available from:

<https://www.cheméo.com/cid/17-130-8/2-Propanone-1-cyclohexylidene.pdf>

Generated by Cheméo on 2024-04-29 00:56:04.072909537 +0000 UTC m=+16641412.993486854.

Cheméo (<https://www.cheméo.com>) is the biggest free database of chemical and physical data for the process industry.