

2-BUTANONE, 4-CYCLOPENTYLIDENE-

Other names:	4-Cyclopentylidene-2-butanone
Inchi:	InChI=1S/C9H14O/c1-8(10)6-7-9-4-2-3-5-9/h7H,2-6H2,1H3
InchiKey:	ZTMAYXUTUHXWGB-UHFFFAOYSA-N
Formula:	C9H14O
SMILES:	CC(=O)CC=C1CCCC1
Mol. weight [g/mol]:	138.21

Physical Properties

Property code	Value	Unit	Source
hfus	13.85	kJ/mol	Joback Method
logp	2.466		Crippen Method
mcvol	124.080	ml/mol	McGowan Method
rinpol	1114.00		NIST Webbook
rinpol	1114.00		NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	266.15	J/mol×K	485.78	Joback Method
cpg	281.10	J/mol×K	520.77	Joback Method
cpg	295.18	J/mol×K	555.75	Joback Method
cpg	308.43	J/mol×K	590.74	Joback Method
cpg	320.90	J/mol×K	625.72	Joback Method
cpg	332.61	J/mol×K	660.71	Joback Method
cpg	343.61	J/mol×K	695.70	Joback Method
dvisc	0.0036296	Pa×s	266.62	Joback Method
dvisc	0.0018834	Pa×s	303.15	Joback Method
dvisc	0.0011254	Pa×s	339.67	Joback Method
dvisc	0.0007432	Pa×s	376.20	Joback Method
dvisc	0.0005282	Pa×s	412.73	Joback Method
dvisc	0.0003968	Pa×s	449.25	Joback Method
dvisc	0.0003112	Pa×s	485.78	Joback Method

Sources

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C51004218&Units=SI

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
hfus:	Enthalpy of fusion at standard conditions
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
rinpola:	Non-polar retention indices

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