

# 2-Cyclopentene-1-carboxylic acid, 1-methyl-

<b>Inchi:</b>	InChI=1S/C7H10O2/c1-7(6(8)9)4-2-3-5-7/h2,4H,3,5H2,1H3,(H,8,9)
<b>InchiKey:</b>	HGSACGMRDLYHMZ-UHFFFAOYSA-N
<b>Formula:</b>	C7H10O2
<b>SMILES:</b>	CC1(C(=O)O)C=CCC1
<b>Mol. weight [g/mol]:</b>	126.15
<b>CAS:</b>	68317-77-1

## Physical Properties

Property code	Value	Unit	Source
gf	-196.66	kJ/mol	Joback Method
hf	-319.12	kJ/mol	Joback Method
hfus	8.43	kJ/mol	Joback Method
hvap	54.00	kJ/mol	Joback Method
log10ws	-1.36		Crippen Method
logp	1.427		Crippen Method
mcvol	101.770	ml/mol	McGowan Method
pc	4602.62	kPa	Joback Method
rinpol	1085.00		NIST Webbook
rinpol	1073.00		NIST Webbook
rinpol	1085.00		NIST Webbook
tb	520.29	K	Joback Method
tc	725.51	K	Joback Method
tf	314.96	K	Joback Method
vc	0.378	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	232.20	J/molxK	520.29	Joback Method
cpg	242.80	J/molxK	554.49	Joback Method
cpg	252.63	J/molxK	588.70	Joback Method
cpg	261.79	J/molxK	622.90	Joback Method
cpg	270.39	J/molxK	657.10	Joback Method
cpg	278.53	J/molxK	691.30	Joback Method

## Sources

<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C68317771&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C68317771&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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