

# Cyclopentanecarboxylic acid, 3alpha-hydroxy-, hydrazide

<b>Inchi:</b>	InChI=1S/C6H12N2O2/c7-8-6(10)4-1-2-5(9)3-4/h4-5,9H,1-3,7H2,(H,8,10)
<b>InchiKey:</b>	UJGMFDAQSGYJDH-UHFFFAOYSA-N
<b>Formula:</b>	C6H12N2O2
<b>SMILES:</b>	NNC(=O)C1CCC(O)C1
<b>Mol. weight [g/mol]:</b>	144.17

## Physical Properties

Property code	Value	Unit	Source
gf	-81.42	kJ/mol	Joback Method
hf	-304.58	kJ/mol	Joback Method
hfus	22.29	kJ/mol	Joback Method
hvap	69.40	kJ/mol	Joback Method
log10ws	-0.75		Crippen Method
logp	-0.863		Crippen Method
mcvol	111.940	ml/mol	McGowan Method
pc	4945.39	kPa	Joback Method
tb	616.04	K	Joback Method
tc	823.52	K	Joback Method
tf	410.71	K	Joback Method
vc	0.401	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	308.29	J/molxK	616.04	Joback Method
cpg	319.70	J/molxK	650.62	Joback Method
cpg	330.41	J/molxK	685.20	Joback Method
cpg	340.44	J/molxK	719.78	Joback Method
cpg	349.80	J/molxK	754.36	Joback Method
cpg	358.53	J/molxK	788.94	Joback Method
cpg	366.65	J/molxK	823.52	Joback Method

# Sources

<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=B6007377&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=B6007377&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>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</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>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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