

# 2-Pentanone, methylhydrazone

**Inchi:** InChI=1S/C6H14N2/c1-4-5-6(2)8-7-3/h7H,4-5H2,1-3H3/b8-6+  
**InchiKey:** RXUXVCIPHMDFAM-SOFGYWHQSA-N  
**Formula:** C6H14N2  
**SMILES:** CCCC(C)=NNC  
**Mol. weight [g/mol]:** 114.19

## Physical Properties

Property code	Value	Unit	Source
hf	-41.27	kJ/mol	Joback Method
hvap	38.78	kJ/mol	Joback Method
log10ws	-1.68		Crippen Method
logp	1.382		Crippen Method
mcvol	111.060	ml/mol	McGowan Method
pc	2826.33	kPa	Joback Method
rinpol	903.00		NIST Webbook
tb	463.41	K	Joback Method
tc	658.15	K	Joback Method

## Sources

**Crippen Method:** <http://pubs.acs.org/doi/abs/10.1021/ci9903071>  
**Crippen Method:** [https://www.chemeo.com/doc/models/crippen\\_log10ws](https://www.chemeo.com/doc/models/crippen_log10ws)  
**Joback Method:** [https://en.wikipedia.org/wiki/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=R511041&Units=SI>

## Legend

**hf:** Enthalpy of formation at standard conditions  
**hvap:** Enthalpy of vaporization at standard conditions  
**log10ws:** 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

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