

# 2-Pentanone, (2,4-dinitrophenyl)hydrazone

<b>Inchi:</b>	InChI=1S/C11H14N4O4/c1-3-4-8(2)12-13-10-6-5-9(14(16)17)7-11(10)15(18)19/h5-7,13H
<b>InchiKey:</b>	WRPKOQRMGLEOOF-UHFFFAOYSA-N
<b>Formula:</b>	C11H14N4O4
<b>SMILES:</b>	CCCC(C)=NNc1ccc([N+](=O)[O-])cc1[N+](=O)[O-]
<b>Mol. weight [g/mol]:</b>	266.25
<b>CAS:</b>	1636-82-4

## Physical Properties

Property code	Value	Unit	Source
hf	47.60	kJ/mol	Joback Method
hvap	86.69	kJ/mol	Joback Method
log10ws	-4.61		Crippen Method
logp	3.091		Crippen Method
mcvol	192.590	ml/mol	McGowan Method
pc	2412.37	kPa	Joback Method
rinpol	2423.00		NIST Webbook
rinpol	2423.00		NIST Webbook
tb	918.13	K	Joback Method
tc	1178.87	K	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=C1636824&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C1636824&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>

## Legend

hf: Enthalpy of formation at standard conditions

<b>h<sub>vap</sub>:</b>	Enthalpy of vaporization at standard conditions
<b>log<sub>10</sub>w<sub>s</sub>:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>log<sub>p</sub>:</b>	Octanol/Water partition coefficient
<b>mc<sub>vol</sub>:</b>	McGowan's characteristic volume
<b>p<sub>c</sub>:</b>	Critical Pressure
<b>r<sub>inpol</sub>:</b>	Non-polar retention indices
<b>t<sub>b</sub>:</b>	Normal Boiling Point Temperature
<b>t<sub>c</sub>:</b>	Critical Temperature

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