

# 3-Hexanone, 2,4-dimethyl-

<b>Other names:</b>	2,4-Dimethyl-3-hexanone 2,4-Dimethyl hexanone-3
<b>Inchi:</b>	InChI=1S/C8H16O/c1-5-7(4)8(9)6(2)3/h6-7H,5H2,1-4H3
<b>InchiKey:</b>	PZAPVPGZDHJUTO-UHFFFAOYSA-N
<b>Formula:</b>	C8H16O
<b>SMILES:</b>	CCC(C)C(=O)C(C)C
<b>Mol. weight [g/mol]:</b>	128.21
<b>CAS:</b>	18641-70-8

## Physical Properties

Property code	Value	Unit	Source
gf	-117.32	kJ/mol	Joback Method
hf	-331.59	kJ/mol	Joback Method
hfus	11.03	kJ/mol	Joback Method
hvap	39.37	kJ/mol	Joback Method
log10ws	-1.97		Crippen Method
logp	2.258		Crippen Method
mcvol	125.150	ml/mol	McGowan Method
pc	2749.78	kPa	Joback Method
ripol	1178.00		NIST Webbook
ripol	1178.00		NIST Webbook
tb	421.00 ± 2.00	K	NIST Webbook
tb	420.00 ± 2.00	K	NIST Webbook
tb	418.00 ± 3.00	K	NIST Webbook
tc	618.82	K	Joback Method
tf	199.85	K	Joback Method
vc	0.477	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	326.99	J/mol×K	618.82	Joback Method
cpg	255.61	J/mol×K	435.43	Joback Method
cpg	268.85	J/mol×K	466.00	Joback Method

cpg	281.53	J/mol×K	496.56	Joback Method
cpg	293.67	J/mol×K	527.13	Joback Method
cpg	305.29	J/mol×K	557.69	Joback Method
cpg	316.39	J/mol×K	588.26	Joback Method
dvisc	0.0002700	Paxs	435.43	Joback Method
dvisc	0.0114893	Paxs	199.85	Joback Method
dvisc	0.0036803	Paxs	239.11	Joback Method
dvisc	0.0016253	Paxs	278.38	Joback Method
dvisc	0.0008785	Paxs	317.64	Joback Method
dvisc	0.0005437	Paxs	356.90	Joback Method
dvisc	0.0003700	Paxs	396.17	Joback Method
hvapt	42.50	kJ/mol	384.00	NIST Webbook

## 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=C18641708&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C18641708&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

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<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>hvapt:</b>	Enthalpy of vaporization at a given temperature
<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>ripol:</b>	Polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point

**vc:** Critical Volume

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