

# 4-Isopropyl-6-methyltetral-1-one

**Other names:**

4-Isopropyl-6-methyl-1,2,3,4-tetrahydronaphthalen-1-one  
10-nor-Calamenen-10-one  
4-Isopropyl-6-methyl-1-tetralone  
4-Isopropyl-6-methyltetralone  
4-Isopropyl-6-methyl-1,2,3,4-tetrahydronaphthalenone

**Inchi:**

InChI=1S/C14H18O/c1-9(2)11-6-7-14(15)12-5-4-10(3)8-13(11)12/h4-5,8-9,11H,6-7H2,1-

**InchiKey:**

KIZXBPVAPQXAMH-UHFFFAOYSA-N

**Formula:**

C14H18O

**SMILES:**

Cc1ccc2c(c1)C(C(C)C)CCC2=O

**Mol. weight [g/mol]:**

202.29

**CAS:**

57494-10-7

## Physical Properties

Property code	Value	Unit	Source
gf	83.77	kJ/mol	Joback Method
hf	-195.04	kJ/mol	Joback Method
hfus	17.30	kJ/mol	Joback Method
hvap	54.30	kJ/mol	Joback Method
log10ws	-4.28		Crippen Method
logp	3.711		Crippen Method
mcvol	175.070	ml/mol	McGowan Method
pc	2349.64	kPa	Joback Method
rinpol	1700.00		NIST Webbook
rinpol	1705.00		NIST Webbook
rinpol	1707.00		NIST Webbook
rinpol	1684.00		NIST Webbook
rinpol	1671.00		NIST Webbook
rinpol	1700.00		NIST Webbook
rinpol	1678.00		NIST Webbook
ripol	2419.00		NIST Webbook
ripol	2419.00		NIST Webbook
ripol	2407.00		NIST Webbook
ripol	2419.00		NIST Webbook
ripol	2410.00		NIST Webbook
ripol	2419.00		NIST Webbook
ripol	2419.00		NIST Webbook
ripol	2419.00		NIST Webbook

tb	634.75	K	Joback Method
tc	870.27	K	Joback Method
tf	366.64	K	Joback Method
vc	0.661	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	465.33	J/mol×K	634.75	Joback Method
cpg	484.30	J/mol×K	674.00	Joback Method
cpg	502.07	J/mol×K	713.26	Joback Method
cpg	518.66	J/mol×K	752.51	Joback Method
cpg	534.11	J/mol×K	791.77	Joback Method
cpg	548.44	J/mol×K	831.02	Joback Method
cpg	561.69	J/mol×K	870.27	Joback Method

## Sources

<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>
<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=C57494107&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C57494107&amp;Units=SI</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>ripol:</b>	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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