

# «alpha» Isomethyl ionone

<b>Other names:</b>	4-(2,6,6-Trimethyl 2-cyclohexen-1-yl)-3-methyl-3-buten-2-one 3-Buten-2-one, 3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)- «alpha»-Cetone «alpha»-Ionone, isomethyl- Cetone alpha iso-«alpha»-methyl ionone Isomethyl-«alpha»-ionone Methyl-«alpha»-isoionone 8-Methyl-«alpha»-ionone NSC 66432 3-methyl-4-(2,6,6-trimethyl-2-cyclohexenyl)-3-buten-2-one 3-Methyl-4-(2,6,6-trimethylcyclohex-2-enyl)-but-3-en-2-one 3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one
<b>Inchi:</b>	InChI=1S/C14H22O/c1-10-7-6-8-14(4,5)13(10)9-11(2)12(3)15/h7,9,13H,6,8H2,1-5H3/b1
<b>InchiKey:</b>	JRJBVWJSTHECJK-PKQBQFBNSA-N
<b>Formula:</b>	C14H22O
<b>SMILES:</b>	<chem>CC(=O)C(C)=CC1C(C)=CCCC1(C)C</chem>
<b>Mol. weight [g/mol]:</b>	206.32
<b>CAS:</b>	127-51-5

## Physical Properties

Property code	Value	Unit	Source
gf	41.33	kJ/mol	Joback Method
hf	-241.91	kJ/mol	Joback Method
hfus	19.95	kJ/mol	Joback Method
hvap	53.46	kJ/mol	Joback Method
log10ws	-4.08		Crippen Method
logp	3.904		Crippen Method
mcvol	190.230	ml/mol	McGowan Method
pc	2058.62	kPa	Joback Method
rinpol	1482.00		NIST Webbook
rinpol	1471.80		NIST Webbook
rinpol	1479.00		NIST Webbook
rinpol	1471.00		NIST Webbook
rinpol	1508.00		NIST Webbook
rinpol	1484.50		NIST Webbook
rinpol	1473.00		NIST Webbook

rinpol	1471.80		NIST Webbook
rinpol	1480.00		NIST Webbook
rinpol	1480.00		NIST Webbook
rinpol	1481.00		NIST Webbook
rinpol	1486.00		NIST Webbook
rinpol	1474.00		NIST Webbook
rinpol	1470.00		NIST Webbook
rinpol	1478.00		NIST Webbook
rinpol	1490.00		NIST Webbook
rinpol	1494.00		NIST Webbook
rinpol	1473.00		NIST Webbook
rinpol	1484.00		NIST Webbook
rinpol	1476.00		NIST Webbook
rinpol	1481.00		NIST Webbook
rinpol	1481.00		NIST Webbook
rinpol	1473.00		NIST Webbook
ripol	1900.00		NIST Webbook
ripol	1872.00		NIST Webbook
ripol	1877.00		NIST Webbook
ripol	1848.00		NIST Webbook
tb	596.89	K	Joback Method
tc	814.96	K	Joback Method
tf	318.75	K	Joback Method
vc	0.723	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	576.37	J/mol×K	778.62	Joback Method
cpg	489.05	J/mol×K	596.89	Joback Method
cpg	508.48	J/mol×K	633.24	Joback Method
cpg	526.79	J/mol×K	669.58	Joback Method
cpg	544.12	J/mol×K	705.93	Joback Method
cpg	560.60	J/mol×K	742.27	Joback Method
cpg	591.55	J/mol×K	814.96	Joback Method
hvapt	69.50	kJ/mol	310.50	NIST Webbook

# Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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=C127515&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C127515&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>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>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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