

# 3-Carene, 2-acetyl-

<b>Other names:</b>	1-(4,7,7-Trimethylbicyclo[4.1.0]hept-4-enyl)ethanone (2-Acetylcarene)
<b>Inchi:</b>	InChI=1S/C12H18O/c1-7-5-6-9-11(12(9,3)4)10(7)8(2)13/h5,9-11H,6H2,1-4H3
<b>InchiKey:</b>	XCBVDXSSPNIVAO-UHFFFAOYSA-N
<b>Formula:</b>	C12H18O
<b>SMILES:</b>	CC(=O)C1C(C)=CCC2C1C2(C)C
<b>Mol. weight [g/mol]:</b>	178.27

## Physical Properties

Property code	Value	Unit	Source
gf	30.06	kJ/mol	Joback Method
hf	-243.28	kJ/mol	Joback Method
hfus	19.28	kJ/mol	Joback Method
hvap	48.23	kJ/mol	Joback Method
log10ws	-2.80		Crippen Method
logp	2.814		Crippen Method
mvol	155.490	ml/mol	McGowan Method
pc	2445.89	kPa	Joback Method
ripol	1159.00		NIST Webbook
tb	540.62	K	Joback Method
tc	753.26	K	Joback Method
tf	335.99	K	Joback Method
vc	0.602	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	393.08	J/mol×K	540.62	Joback Method
cpg	411.05	J/mol×K	576.06	Joback Method
cpg	427.87	J/mol×K	611.50	Joback Method
cpg	443.66	J/mol×K	646.94	Joback Method
cpg	458.57	J/mol×K	682.38	Joback Method
cpg	472.74	J/mol×K	717.82	Joback Method
cpg	486.29	J/mol×K	753.26	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U156140&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U156140&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>
<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>

# 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>hvp:</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>ripl:</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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