

# 6-methyl-5-hepten-3-one

Inchi:	InChI=1S/C8H14O/c1-4-8(9)6-5-7(2)3/h5H,4,6H2,1-3H3
InchiKey:	RHAVXGQNJASKJW-UHFFFAOYSA-N
Formula:	C8H14O
SMILES:	CCC(=O)CC=C(C)C
Mol. weight [g/mol]:	126.20

## Physical Properties

Property code	Value	Unit	Source
gf	-40.77	kJ/mol	Joback Method
hf	-213.60	kJ/mol	Joback Method
hfus	16.97	kJ/mol	Joback Method
hvap	40.19	kJ/mol	Joback Method
log10ws	-2.30		Crippen Method
logp	2.322		Crippen Method
mcvol	120.850	ml/mol	McGowan Method
pc	2871.95	kPa	Joback Method
ripol	1334.00		NIST Webbook
ripol	1332.00		NIST Webbook
ripol	1334.00		NIST Webbook
ripol	1332.00		NIST Webbook
tb	440.35	K	Joback Method
tc	627.87	K	Joback Method
tf	210.81	K	Joback Method
vc	0.470	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	239.66	J/mol×K	440.35	Joback Method
cpg	252.05	J/mol×K	471.60	Joback Method
cpg	263.86	J/mol×K	502.86	Joback Method
cpg	275.09	J/mol×K	534.11	Joback Method
cpg	285.78	J/mol×K	565.36	Joback Method
cpg	295.94	J/mol×K	596.61	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=R330619&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R330619&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>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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