

# 3-Hexen-2-one, 5-methyl-, trans

<b>Inchi:</b>	InChI=1S/C7H12O/c1-6(2)4-5-7(3)8/h4-6H,1-3H3/b5-4+
<b>InchiKey:</b>	IYMKNYVCXUEFJE-SNAWJCMRSA-N
<b>Formula:</b>	C7H12O
<b>SMILES:</b>	CC(=O)C=CC(C)C
<b>Mol. weight [g/mol]:</b>	112.17

## Physical Properties

Property code	Value	Unit	Source
gf	-43.08	kJ/mol	Joback Method
hf	-188.45	kJ/mol	Joback Method
hfus	12.16	kJ/mol	Joback Method
hvap	37.49	kJ/mol	Joback Method
log10ws	-1.64		Crippen Method
logp	1.788		Crippen Method
mcvol	106.760	ml/mol	McGowan Method
pc	3202.78	kPa	Joback Method
rinpol	871.00		NIST Webbook
rinpol	871.00		NIST Webbook
ripol	1122.00		NIST Webbook
tb	417.15	K	Joback Method
tc	607.02	K	Joback Method
tf	198.50	K	Joback Method
vc	0.407	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	200.13	J/mol×K	417.15	Joback Method
cpg	211.54	J/mol×K	448.80	Joback Method
cpg	222.38	J/mol×K	480.44	Joback Method
cpg	232.70	J/mol×K	512.09	Joback Method
cpg	242.50	J/mol×K	543.73	Joback Method
cpg	251.80	J/mol×K	575.38	Joback Method
cpg	260.64	J/mol×K	607.02	Joback Method

dvisc	0.0061552	Paxs	198.50	Joback Method
dvisc	0.0023545	Paxs	234.94	Joback Method
dvisc	0.0011658	Paxs	271.38	Joback Method
dvisc	0.0006818	Paxs	307.82	Joback Method
dvisc	0.0004467	Paxs	344.27	Joback Method
dvisc	0.0003173	Paxs	380.71	Joback Method
dvisc	0.0002393	Paxs	417.15	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R297948&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R297948&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>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>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mvol:</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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