

# 2-Hexenal, 2-methyl-

<b>Other names:</b>	(E)-2-Methyl-2-hexenal
<b>Inchi:</b>	InChI=1S/C7H12O/c1-3-4-5-7(2)6-8/h5-6H,3-4H2,1-2H3/b7-5+
<b>InchiKey:</b>	BRLKFSODKAIVGM-FNORWQNLSA-N
<b>Formula:</b>	C7H12O
<b>SMILES:</b>	CCCC=C(C)C=O
<b>Mol. weight [g/mol]:</b>	112.17
<b>CAS:</b>	28467-88-1

## Physical Properties

Property code	Value	Unit	Source
gf	-19.79	kJ/mol	Joback Method
hf	-165.96	kJ/mol	Joback Method
hfus	15.07	kJ/mol	Joback Method
hvap	37.93	kJ/mol	Joback Method
log10ws	-1.89		Crippen Method
logp	1.932		Crippen Method
mcvol	106.760	ml/mol	McGowan Method
pc	3231.98	kPa	Joback Method
rinpol	884.00		NIST Webbook
tb	412.26	K	Joback Method
tc	596.19	K	Joback Method
tf	191.61	K	Joback Method
vc	0.425	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	201.71	J/molxK	412.26	Joback Method
cpg	212.62	J/molxK	442.92	Joback Method
cpg	223.00	J/molxK	473.57	Joback Method
cpg	232.88	J/molxK	504.23	Joback Method
cpg	242.28	J/molxK	534.88	Joback Method
cpg	251.22	J/molxK	565.54	Joback Method
cpg	259.72	J/molxK	596.19	Joback Method

# Sources

<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=C28467881&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C28467881&amp;Units=SI</a>
<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>

# 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>rinp:</b>	Non-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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