

# 2-Ethylidene-6-methyl-5-heptenal

<b>Inchi:</b>	InChI=1S/C10H16O/c1-4-10(8-11)7-5-6-9(2)3/h4,6,8H,5,7H2,1-3H3/b10-4-
<b>InchiKey:</b>	LXCRPTWMWKEMBL-WMZJFQQLSA-N
<b>Formula:</b>	C10H16O
<b>SMILES:</b>	CC=C(C=O)CCC=C(C)C
<b>Mol. weight [g/mol]:</b>	152.23
<b>CAS:</b>	92835-06-8

## Physical Properties

Property code	Value	Unit	Source
gf	77.14	kJ/mol	Joback Method
hf	-120.45	kJ/mol	Joback Method
hfus	21.73	kJ/mol	Joback Method
hvap	44.65	kJ/mol	Joback Method
log10ws	-3.00		Crippen Method
logp	2.878		Crippen Method
mcvol	144.730	ml/mol	McGowan Method
pc	2525.19	kPa	Joback Method
tb	484.94	K	Joback Method
tc	675.98	K	Joback Method
tf	206.38	K	Joback Method
vc	0.575	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	309.04	J/molxK	484.94	Joback Method
cpg	322.90	J/molxK	516.78	Joback Method
cpg	336.01	J/molxK	548.62	Joback Method
cpg	348.41	J/molxK	580.46	Joback Method
cpg	360.14	J/molxK	612.30	Joback Method
cpg	371.25	J/molxK	644.14	Joback Method
cpg	381.76	J/molxK	675.98	Joback Method

# Sources

<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=C92835068&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C92835068&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</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>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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