

# 2-Methyl-3-ethyl-2-heptene

<b>Other names:</b>	C <sub>4</sub> H <sub>9</sub> C(C <sub>2</sub> H <sub>5</sub> )=C(CH <sub>3</sub> ) <sub>2</sub> 3-Ethyl-2-methyl-2-heptene
<b>Inchi:</b>	InChI=1S/C10H20/c1-5-7-8-10(6-2)9(3)4/h5-8H2,1-4H3
<b>InchiKey:</b>	JCVDGJIYXBDDCK-UHFFFAOYSA-N
<b>Formula:</b>	C <sub>10</sub> H <sub>20</sub>
<b>SMILES:</b>	CCCCC(CC)=C(C)C
<b>Mol. weight [g/mol]:</b>	140.27
<b>CAS:</b>	19780-61-1

## Physical Properties

Property code	Value	Unit	Source
gf	96.44	kJ/mol	Joback Method
hf	-152.09	kJ/mol	Joback Method
hfus	19.24	kJ/mol	Joback Method
hvap	37.97	kJ/mol	Joback Method
ie	8.10 ± 0.01	eV	NIST Webbook
log10ws	-3.86		Crippen Method
logp	3.923		Crippen Method
mcvol	147.460	ml/mol	McGowan Method
pc	2233.41	kPa	Joback Method
rinpol	1073.00		NIST Webbook
rinpol	979.10		NIST Webbook
rinpol	1073.00		NIST Webbook
tb	432.12	K	Joback Method
tc	608.78	K	Joback Method
tf	169.46	K	Joback Method
vc	0.578	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	300.15	J/mol×K	432.12	Joback Method
cpg	315.61	J/mol×K	461.56	Joback Method
cpg	330.39	J/mol×K	491.01	Joback Method

cpg	344.52	J/mol×K	520.45	Joback Method
cpg	358.03	J/mol×K	549.89	Joback Method
cpg	370.94	J/mol×K	579.34	Joback Method
cpg	383.26	J/mol×K	608.78	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=C19780611&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C19780611&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>

## 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>ie:</b>	Ionization energy
<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>rinpola:</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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