

# 6-Methyl-2-heptyne

<b>Other names:</b>	2-Heptyne, 6-methyl
<b>Inchi:</b>	InChI=1S/C8H14/c1-4-5-6-7-8(2)3/h8H,6-7H2,1-3H3
<b>InchiKey:</b>	HIEALULIKYDRQN-UHFFFAOYSA-N
<b>Formula:</b>	C8H14
<b>SMILES:</b>	CC#CCCC(C)C
<b>Mol. weight [g/mol]:</b>	110.20
<b>CAS:</b>	51065-64-6

## Physical Properties

Property code	Value	Unit	Source
gf	216.84	kJ/mol	Joback Method
hf	58.57	kJ/mol	Joback Method
hfus	16.07	kJ/mol	Joback Method
hvap	35.17	kJ/mol	Joback Method
log10ws	-2.72		Crippen Method
logp	2.446		Crippen Method
mcvol	114.980	ml/mol	McGowan Method
pc	3025.61	kPa	Joback Method
tb	391.00	K	Joback Method
tc	582.81	K	Joback Method
tf	271.02	K	Joback Method
vc	0.440	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	208.33	J/mol×K	391.00	Joback Method
cpg	220.75	J/mol×K	422.97	Joback Method
cpg	232.68	J/mol×K	454.94	Joback Method
cpg	244.12	J/mol×K	486.91	Joback Method
cpg	255.09	J/mol×K	518.88	Joback Method
cpg	265.59	J/mol×K	550.85	Joback Method
cpg	275.65	J/mol×K	582.81	Joback Method

# Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.50562e+01
Coeff. B	-3.63431e+03
Coeff. C	-5.15160e+01
Temperature range (K), min.	297.60
Temperature range (K), max.	424.47

## 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=C51065646&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C51065646&amp;Units=SI</a>
<b>The Yaws Handbook of Vapor Pressure:</b>	<a href="https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure">https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure</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>pvap:</b>	Vapor pressure
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature

**tf:** Normal melting (fusion) point

**vc:** Critical Volume

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