

# 1-Hexyne, 4-methyl

<b>Inchi:</b>	InChI=1S/C7H12/c1-4-6-7(3)5-2/h1,7H,5-6H2,2-3H3
<b>InchiKey:</b>	YFZSGTDENCTWGW-UHFFFAOYSA-N
<b>Formula:</b>	C7H12
<b>SMILES:</b>	C#CCC(C)CC
<b>Mol. weight [g/mol]:</b>	96.17
<b>CAS:</b>	52713-81-2

## Physical Properties

Property code	Value	Unit	Source
gf	228.69	kJ/mol	Joback Method
hf	98.81	kJ/mol	Joback Method
hfus	13.34	kJ/mol	Joback Method
hvap	30.65	kJ/mol	Joback Method
log10ws	-2.31		Crippen Method
logp	2.056		Crippen Method
mcvol	100.890	ml/mol	McGowan Method
pc	3325.84	kPa	Joback Method
rinpol	659.00		NIST Webbook
rinpol	659.00		NIST Webbook
tb	349.24	K	Joback Method
tc	528.78	K	Joback Method
tf	200.62	K	Joback Method
vc	0.384	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	171.87	J/molxK	349.24	Joback Method
cpg	182.56	J/molxK	379.16	Joback Method
cpg	192.80	J/molxK	409.09	Joback Method
cpg	202.59	J/molxK	439.01	Joback Method
cpg	211.96	J/molxK	468.93	Joback Method
cpg	220.92	J/molxK	498.86	Joback Method
cpg	229.49	J/molxK	528.78	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=C52713812&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C52713812&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>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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