

# 3-Heptyne, 2,2,5,6,6-pentamethyl

<b>Inchi:</b>	InChI=1S/C12H22/c1-10(12(5,6)7)8-9-11(2,3)4/h10H,1-7H3
<b>InchiKey:</b>	XRFNXAZVPMFYEM-UHFFFAOYSA-N
<b>Formula:</b>	C12H22
<b>SMILES:</b>	CC(C#CC(C)(C)C)C(C)(C)C
<b>Mol. weight [g/mol]:</b>	166.30

## Physical Properties

Property code	Value	Unit	Source
gf	256.20	kJ/mol	Joback Method
hf	-41.49	kJ/mol	Joback Method
hfus	11.61	kJ/mol	Joback Method
hvap	41.48	kJ/mol	Joback Method
log10ws	-3.92		Crippen Method
logp	3.718		Crippen Method
mcvol	171.340	ml/mol	McGowan Method
pc	2135.43	kPa	Joback Method
rinpol	914.00		NIST Webbook
rinpol	914.00		NIST Webbook
tb	476.06	K	Joback Method
tc	685.66	K	Joback Method
tf	320.94	K	Joback Method
vc	0.641	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	381.89	J/mol×K	476.06	Joback Method
cpg	401.63	J/mol×K	510.99	Joback Method
cpg	420.16	J/mol×K	545.93	Joback Method
cpg	437.55	J/mol×K	580.86	Joback Method
cpg	453.86	J/mol×K	615.80	Joback Method
cpg	469.16	J/mol×K	650.73	Joback Method
cpg	483.51	J/mol×K	685.66	Joback Method

# 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=R66611&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R66611&amp;Units=SI</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>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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