

# N-Heptyl-N-methyl-benzamide

<b>Inchi:</b>	InChI=1S/C15H23NO/c1-3-4-5-6-10-13-16(2)15(17)14-11-8-7-9-12-14/h7-9,11-12H,3-6,1
<b>InchiKey:</b>	FCTHNQAPXOSDJH-UHFFFAOYSA-N
<b>Formula:</b>	C15H23NO
<b>SMILES:</b>	CCCCCCCN(C)C(=O)c1ccccc1
<b>Mol. weight [g/mol]:</b>	233.35

## Physical Properties

Property code	Value	Unit	Source
gf	169.69	kJ/mol	Joback Method
hf	-161.45	kJ/mol	Joback Method
hfus	33.27	kJ/mol	Joback Method
hvap	60.05	kJ/mol	Joback Method
log10ws	-4.13		Crippen Method
logp	3.729		Crippen Method
mcvol	210.000	ml/mol	McGowan Method
pc	1947.51	kPa	Joback Method
rinpol	1902.92		NIST Webbook
rinpol	1904.96		NIST Webbook
rinpol	1925.16		NIST Webbook
rinpol	1882.54		NIST Webbook
ripol	2835.23		NIST Webbook
ripol	2815.37		NIST Webbook
ripol	2856.14		NIST Webbook
tb	635.59	K	Joback Method
tc	832.38	K	Joback Method
tf	367.63	K	Joback Method
vc	0.791	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	557.20	J/molxK	635.59	Joback Method
cpg	574.64	J/molxK	668.39	Joback Method
cpg	591.06	J/molxK	701.19	Joback Method

cpg	606.51	J/mol×K	733.98	Joback Method
cpg	621.04	J/mol×K	766.78	Joback Method
cpg	634.68	J/mol×K	799.58	Joback Method
cpg	647.49	J/mol×K	832.38	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=R194131&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R194131&amp;Units=SI</a>
<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>

## 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>rinpol:</b>	Non-polar retention indices
<b>ripol:</b>	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

Latest version available from:

<https://www.chemeo.com/cid/43-758-3/N-Heptyl-N-methyl-benzamide.pdf>

Generated by Cheméo on 2024-04-25 21:58:41.546381074 +0000 UTC m=+16371570.466958390.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.