

# Benzamide, N,N-diheptyl-4-methyl-

<b>Inchi:</b>	InChI=1S/C22H37NO/c1-4-6-8-10-12-18-23(19-13-11-9-7-5-2)22(24)21-16-14-20(3)15-1
<b>InchiKey:</b>	TWRFQRPCDUFJKS-UHFFFAOYSA-N
<b>Formula:</b>	C22H37NO
<b>SMILES:</b>	CCCCCCCN(CCCCCC)C(=O)c1ccc(C)cc1
<b>Mol. weight [g/mol]:</b>	331.54

## Physical Properties

Property code	Value	Unit	Source
gf	219.00	kJ/mol	Joback Method
hf	-317.40	kJ/mol	Joback Method
hfus	51.01	kJ/mol	Joback Method
hvap	76.29	kJ/mol	Joback Method
log10ws	-7.11		Crippen Method
logp	6.378		Crippen Method
mcvol	308.630	ml/mol	McGowan Method
pc	1146.76	kPa	Joback Method
rinpol	2466.00		NIST Webbook
rinpol	2466.00		NIST Webbook
tb	800.73	K	Joback Method
tc	991.77	K	Joback Method
tf	459.04	K	Joback Method
vc	1.183	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	956.75	J/molxK	800.73	Joback Method
cpg	975.85	J/molxK	832.57	Joback Method
cpg	993.88	J/molxK	864.41	Joback Method
cpg	1010.88	J/molxK	896.25	Joback Method
cpg	1026.91	J/molxK	928.09	Joback Method
cpg	1042.02	J/molxK	959.93	Joback Method
cpg	1056.26	J/molxK	991.77	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=U308465&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U308465&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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