

# Benzphetamine

**Other names:**

Benzeneethanamine, N, «alpha»-dimethyl-N-(phenylmethyl)-, (+)-  
Phenethylamine, N-benzyl-N, «alpha»-dimethyl-, (+)-  
N-Benzyl-N, «alpha»-dimethylphenethylamine  
Benzphetamine  
Benzfetamine  
d-Benzphetamine  
N-Benzylmethamphetamine  
(+)-Benzphetamine  
5411-22-3 (hydrochloride)

**Inchi:**

InChI=1S/C17H21N/c1-15(13-16-9-5-3-6-10-16)18(2)14-17-11-7-4-8-12-17/h3-12,15H,13

**InchiKey:**

YXKTVDFXDRQTKV-UHFFFAOYSA-N

**Formula:**

C17H21N

**SMILES:**

CC(Cc1cccc1)N(C)Cc1cccc1

**Mol. weight [g/mol]:**

239.36

**CAS:**

156-08-1

## Physical Properties

Property code	Value	Unit	Source
gf	425.42	kJ/mol	Joback Method
hf	141.10	kJ/mol	Joback Method
hfus	27.37	kJ/mol	Joback Method
hvap	59.64	kJ/mol	Joback Method
log10ws	-4.32		Crippen Method
logp	3.750		Crippen Method
mcvol	212.850	ml/mol	McGowan Method
pc	2100.34	kPa	Joback Method
rinpol	1807.00		NIST Webbook
rinpol	1850.00		NIST Webbook
rinpol	1855.00		NIST Webbook
rinpol	1806.00		NIST Webbook
rinpol	1855.00		NIST Webbook
rinpol	1860.00		NIST Webbook
rinpol	1834.00		NIST Webbook
rinpol	1855.00		NIST Webbook
rinpol	1850.00		NIST Webbook
ripol	2392.00		NIST Webbook
ripol	2392.00		NIST Webbook

tb	653.72	K	Joback Method
tc	880.44	K	Joback Method
tf	351.66	K	Joback Method
vc	0.783	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	563.96	J/mol×K	653.72	Joback Method
cpg	583.53	J/mol×K	691.51	Joback Method
cpg	601.67	J/mol×K	729.29	Joback Method
cpg	618.47	J/mol×K	767.08	Joback Method
cpg	634.02	J/mol×K	804.86	Joback Method
cpg	648.41	J/mol×K	842.65	Joback Method
cpg	661.74	J/mol×K	880.44	Joback Method

## Sources

<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=C156081&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C156081&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>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</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.cheméo.com/cid/45-103-7/Benzphetamine.pdf>

Generated by Cheméo on 2024-04-20 03:39:07.694665302 +0000 UTC m=+15873596.615242617.

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