

# Methamphetamine

<b>Other names:</b>	Benzeneethanamine, N, «alpha»-dimethyl-, (S)- Phenethylamine, N, «alpha»-dimethyl-, (S)-(+)- (+)-(S)-Deoxyephedrine (+)-Methamphetamine (+)-Methylamphetamine (+)-N-Methylamphetamine D-(S)-methamphetamine D-deoxyephedrine D-desoxyephedrine D-methamphetamine D-methylamphetamine D-N-methylamphetamine D-N, «alpha»-dimethylphenethylamine D-phenylisopropylmethylamine Benzeneethanamine, N, «alpha»-dimethyl-, (+)- L-Methamphetamine Metamphetamine Methyl-«beta»-phenylisopropylamine Methylamphetamine N-Methylamphetamine Norodin 1-Phenyl-2-methylaminopropane D-1-Phenyl-2-methylaminopropan D-1-Phenyl-2-methylaminopropane Phenethylamine, N, «alpha»-dimethyl-, (+)- Metamfetamine (+)-N, «alpha»-Dimethylphenethylamine Desyphed (+)-(S)-N-«alpha»-Dimethylphenethylamine (+)-2-(N-Methylamino)-1-phenylpropane (+)-N, «alpha»-Dimethyl-«beta»-phenylethylamine (S)-(+)-Deoxyephedrine (S)-Methamphetamine (S)-Methylamphetamine NSC 25115 N-«alpha»-dimethylphenethylamine
<b>Inchi:</b>	InChI=1S/C10H15N/c1-9(11-2)8-10-6-4-3-5-7-10/h3-7,9,11H,8H2,1-2H3/t9-/m1/s1
<b>InchiKey:</b>	MYWUZJCMWCOHBA-SECBINFHSA-N
<b>Formula:</b>	C10H15N
<b>SMILES:</b>	CNC(C)Cc1ccccc1

Mol. weight [g/mol]: 149.23  
CAS: 537-46-2

## Physical Properties

Property code	Value	Unit	Source
gf	232.68	kJ/mol	Joback Method
hf	34.99	kJ/mol	Joback Method
hfus	17.27	kJ/mol	Joback Method
hvap	46.18	kJ/mol	Joback Method
log10ws	-2.41		Crippen Method
logp	1.837		Crippen Method
mcvol	137.980	ml/mol	McGowan Method
pc	2999.15	kPa	Joback Method
rinpol	1161.00		NIST Webbook
rinpol	1187.00		NIST Webbook
rinpol	1187.00		NIST Webbook
rinpol	1188.00		NIST Webbook
ripol	1562.00		NIST Webbook
ripol	1562.00		NIST Webbook
tb	504.61	K	Joback Method
tc	715.64	K	Joback Method
tf	266.54	K	Joback Method
vc	0.516	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	304.75	J/mol×K	504.61	Joback Method
cpg	320.38	J/mol×K	539.78	Joback Method
cpg	335.09	J/mol×K	574.95	Joback Method
cpg	348.92	J/mol×K	610.13	Joback Method
cpg	361.90	J/mol×K	645.30	Joback Method
cpg	374.08	J/mol×K	680.47	Joback Method
cpg	385.49	J/mol×K	715.64	Joback Method
hvapt	52.80	kJ/mol	287.00	NIST Webbook

# Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</a>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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=C537462&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C537462&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>hvapt:</b>	Enthalpy of vaporization at a given temperature
<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

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