

# Benzenemethanamine, 4-methyl-

<b>Other names:</b>	4-Methylbenzylamine Benzylamine, p-methyl- p-Methylbenzylamine
<b>Inchi:</b>	InChI=1S/C8H11N/c1-7-2-4-8(6-9)5-3-7/h2-5H,6,9H2,1H3
<b>InchiKey:</b>	HMTSWYPNXFHGEP-UHFFFAOYSA-N
<b>Formula:</b>	C8H11N
<b>SMILES:</b>	Cc1ccc(CN)cc1
<b>Mol. weight [g/mol]:</b>	121.18
<b>CAS:</b>	104-84-7

## Physical Properties

Property code	Value	Unit	Source
gf	185.71	kJ/mol	Joback Method
hf	50.40	kJ/mol	Joback Method
hfus	15.32	kJ/mol	Joback Method
hvap	46.98	kJ/mol	Joback Method
log10ws	-2.26		Crippen Method
logp	1.454		Crippen Method
mcvol	109.800	ml/mol	McGowan Method
pc	3843.54	kPa	Joback Method
tb	468.20	K	NIST Webbook
tc	710.97	K	Joback Method
tf	302.12	K	Joback Method
vc	0.405	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	228.77	J/molxK	486.63	Joback Method
cpg	241.38	J/molxK	524.02	Joback Method
cpg	253.24	J/molxK	561.41	Joback Method
cpg	264.37	J/molxK	598.80	Joback Method
cpg	274.81	J/molxK	636.19	Joback Method
cpg	284.60	J/molxK	673.58	Joback Method

cpg	293.75	J/mol×K	710.97	Joback Method
hvapt	54.40	kJ/mol	409.50	NIST Webbook

## Sources

<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>KDB:</b>	<a href="https://www.thermo.com/files/research/kdb/mol/mol1399.mol">https://www.thermo.com/files/research/kdb/mol/mol1399.mol</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=C104847&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C104847&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>
<b>Crippen Method:</b>	<a href="https://www.chemo.com/doc/models/crippen_log10ws">https://www.chemo.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>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>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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