

# Benzenemethanamine, N,«alpha»,«alpha»-triphenyl-

Other names:

Methylamine, N,1,1,1-tetraphenyl-  
Benzenamine, N-(triphenylmethyl)-  
Phenyltriphenylmethylamine  
N-Tritylaniline  
N-(Triphenylmethyl)aniline

Inchi:

InChI=1S/C25H21N/c1-5-13-21(14-6-1)25(22-15-7-2-8-16-22,23-17-9-3-10-18-23)26-24-

InchiKey:

RFGSRKHZQYWJJW-UHFFFAOYSA-N

Formula:

C25H21N

SMILES:

c1ccc(NC(c2ccccc2)(c2ccccc2)c2ccccc2)cc1

Mol. weight [g/mol]:

335.44

CAS:

4471-22-1

## Physical Properties

Property code	Value	Unit	Source
gf	701.49	kJ/mol	Joback Method
hf	431.51	kJ/mol	Joback Method
hfus	34.35	kJ/mol	Joback Method
hvap	85.49	kJ/mol	Joback Method
log10ws	-6.70		Crippen Method
logp	6.091		Crippen Method
mcvol	278.050	ml/mol	McGowan Method
pc	1954.41	kPa	Joback Method
tb	925.06	K	Joback Method
tc	1207.44	K	Joback Method
tf	532.27	K	Joback Method
vc	1.028	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	848.08	J/molxK	925.06	Joback Method
cpg	864.37	J/molxK	972.12	Joback Method
cpg	879.30	J/molxK	1019.19	Joback Method
cpg	893.15	J/molxK	1066.25	Joback Method

cpg	906.22	J/mol×K	1113.31	Joback Method
cpg	918.81	J/mol×K	1160.37	Joback Method
cpg	931.21	J/mol×K	1207.44	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=C4471221&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C4471221&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>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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