

# benzyldiphenylamine

<b>Other names:</b>	Benzenemethanamine, N,N-diphenyl-
<b>Inchi:</b>	InChI=1S/C19H17N/c1-4-10-17(11-5-1)16-20(18-12-6-2-7-13-18)19-14-8-3-9-15-19/h1-1
<b>InchiKey:</b>	FKJARBPQBIATJT-UHFFFAOYSA-N
<b>Formula:</b>	C19H17N
<b>SMILES:</b>	<chem>c1ccc(CN(c2ccccc2)c2ccccc2)cc1</chem>
<b>Mol. weight [g/mol]:</b>	259.35
<b>CAS:</b>	606-87-1

## Physical Properties

Property code	Value	Unit	Source
chs	-10091.00 ± 10.00	kJ/mol	NIST Webbook
gf	557.11	kJ/mol	Joback Method
hf	341.63	kJ/mol	Joback Method
hfs	185.00 ± 10.00	kJ/mol	NIST Webbook
hfus	30.11	kJ/mol	Joback Method
hvap	66.76	kJ/mol	Joback Method
log10ws	-5.29		Crippen Method
logp	5.025		Crippen Method
mcvol	217.270	ml/mol	McGowan Method
pc	2377.22	kPa	Joback Method
tb	726.60	K	Joback Method
tc	984.61	K	Joback Method
tf	415.62	K	Joback Method
vc	0.793	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	589.67	J/molxK	726.60	Joback Method
cpg	608.11	J/molxK	769.60	Joback Method
cpg	624.86	J/molxK	812.60	Joback Method
cpg	640.08	J/molxK	855.60	Joback Method
cpg	653.92	J/molxK	898.61	Joback Method
cpg	666.54	J/molxK	941.61	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=C606871&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C606871&amp;Units=SI</a>

## Legend

<b>chs:</b>	Standard solid enthalpy of combustion
<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>hfs:</b>	Solid phase 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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