

# p,p'-Benzylidenebis(N,N-dimethylaniline)

**Other names:**

Leuco malachite green  
Benzenamine, 4,4'-(phenylmethylene)bis[N,N-dimethyl-  
Aniline, 4,4'-benzylidenebis(N,N-dimethyl-  
Bis(p-dimethylaminophenyl)phenylmethane  
Bis(p-(N,N-dimethylamino)phenyl)phenylmethane  
Bis(4,4'-(dimethylamino)phenyl)phenyl methane  
C.I. Basic Green 4, leuco base  
Malachite green leuco  
Malachite green leuco base  
Tetramethyldiaminotriphenylmethane  
4,4'-Benzylidene bis(N,N-dimethylaniline)  
4,4'-Bis(dimethylamino)triphenylmethane  
4,4'-Bis(N,N-dimethylaminophenyl)phenylmethane  
NSC 36379  
N,N,N',N'-tetramethyl-4,4'-benzylidenedianiline

**Inchi:**

InChI=1S/C23H26N2/c1-24(2)21-14-10-19(11-15-21)23(18-8-6-5-7-9-18)20-12-16-22(17

**InchiKey:**

WZKXBGJNNCGHIC-UHFFFAOYSA-N

**Formula:**

C23H26N2

**SMILES:**

CN(C)c1ccc(C(c2ccccc2)c2ccc(N(C)C)cc2)cc1

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

330.47

**CAS:**

129-73-7

## Physical Properties

Property code	Value	Unit	Source
gf	679.87	kJ/mol	Joback Method
hf	298.38	kJ/mol	Joback Method
hfus	39.19	kJ/mol	Joback Method
hvap	78.64	kJ/mol	Joback Method
log10ws	-5.07		Crippen Method
logp	4.999		Crippen Method
mcvol	283.610	ml/mol	McGowan Method
pc	1653.80	kPa	Joback Method
tb	840.08	K	Joback Method
tc	1080.24	K	Joback Method
tf	503.21	K	Joback Method
vc	1.030	m3/kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	855.62	J/mol×K	840.08	Joback Method
cpg	873.99	J/mol×K	880.11	Joback Method
cpg	890.91	J/mol×K	920.13	Joback Method
cpg	906.51	J/mol×K	960.16	Joback Method
cpg	920.92	J/mol×K	1000.18	Joback Method
cpg	934.30	J/mol×K	1040.21	Joback Method
cpg	946.78	J/mol×K	1080.24	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=C129737&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C129737&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>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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