

# Benzenamine, 4-butyl-N-[(4-methoxyphenyl)methylene]-

Other names:

N-(p-Methoxybenzylidene)-p-butylaniline  
4-Butyl-N-[(4-methoxyphenyl)methylene]benzenamine  
p-Methoxybenzylidene-p-butylaniline  
p-Anisylidene-p-butylaniline  
Aniline, p-butyl-N-(p-methoxybenzylidene)-  
4-Methoxybenzylidene-4'-n-butylaniline  
MBBA  
4-Methoxybenzylidene 4'-butylaniline  
4-Butyl-N-[(4-methoxyphenyl)methylidene]aniline  
N-(4-Methoxybenzylidene)-p-n-butylaniline  
4-Butyl-N-(p-methoxybenzylidene)aniline  
DL 1047 N  
N-(4-Methoxybenzylidene)-4-butylaniline  
N-(4'-methoxybenzylidene)-4-butylaniline

**Inchi:** InChI=1S/C18H21NO/c1-3-4-5-15-6-10-17(11-7-15)19-14-16-8-12-18(20-2)13-9-16/h6-1

**InchiKey:** FEIWNULTQYHCDN-UHFFFAOYSA-N

**Formula:** C18H21NO

**SMILES:** CCCCc1ccc(N=Cc2ccc(OC)cc2)cc1

**Mol. weight [g/mol]:** 267.37

**CAS:** 26227-73-6

## Physical Properties

Property code	Value	Unit	Source
hf	-14.73	kJ/mol	Joback Method
hvac	67.26	kJ/mol	Joback Method
log10ws	-5.10		Crippen Method
logp	4.788		Crippen Method
mccvol	228.510	ml/mol	McGowan Method
pc	1685.18	kPa	Joback Method
tb	773.66	K	Joback Method
tc	1006.61	K	Joback Method
tt	295.30 ± 0.10	K	NIST Webbook
tt	294.00 ± 0.10	K	NIST Webbook

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpl	477.00	J/mol×K	298.15	NIST Webbook
cpl	490.00	J/mol×K	300.00	NIST Webbook
cpl	475.30	J/mol×K	298.15	NIST Webbook
hfust	18.03	kJ/mol	295.30	NIST Webbook
sfust	61.04	J/mol×K	295.30	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>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=C26227736&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C26227736&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>

## Legend

<b>cpl:</b>	Liquid phase heat capacity
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfust:</b>	Enthalpy of fusion at a given temperature
<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>sfust:</b>	Entropy of fusion at a given temperature
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tt:</b>	Triple Point Temperature

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