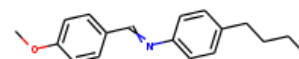


N-(4-Methoxybenzylidene)-p-n-butylaniline

Other names: 4-Butyl-N-(p-methoxybenzylidene)aniline;
4-Butyl-N-[(4-methoxyphenyl)methylene]benzenamine;
4-Butyl-N-[(4-methoxyphenyl)methylidene]aniline;
4-Methoxybenzylidene-4'-n-butylaniline; 4-Methoxybenzylidene
4'-butylaniline; Aniline, p-butyl-N-(p-methoxybenzylidene)-; DL 1047 N;
MBBA; N-(4'-methoxybenzylidene)-4-butylaniline;
N-(4-Methoxybenzylidene)-4-butylaniline;
N-(4-Methoxybenzylidene)-p-n-butylaniline;
N-(p-Methoxybenzylidene)-p-butylaniline; p-Anisylidene-p-butylaniline;
p-Methoxybenzylidene-p-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/h6-14H,3-5H2,1-2H3

InChI Key: FEIWNULTQYHCDN-UHFFFAOYSA-N

Formula: C18H21NO

SMILES: CCCc1ccc(N=Cc2ccc(OC)cc2)cc1

Molecular Weight: 267.37

CAS: 26227-73-6

Physical Properties

Property	Value	Unit	Source
$\Delta_f H^\circ_{\text{gas}}$	-14.73	kJ/mol	Joback Method
$\Delta_{\text{vap}} H^\circ$	67.26	kJ/mol	Joback Method
$\log P_{\text{oct/wat}}$	4.788		Crippen Method
P_c	1685.18	kPa	Joback Method
T_{boil}	773.66	K	Joback Method
T_c	1006.61	K	Joback Method
T_{triple}	295.30 ± 0.10	K	NIST Webbook
T_{triple}	294.00 ± 0.10	K	NIST Webbook

Temperature Dependent Properties

Property	Value	Unit	Temperature (K)	Source
$C_{p,\text{liquid}}$	477.00	J/mol×K	298.15	NIST Webbook
$C_{p,\text{liquid}}$	475.30	J/mol×K	298.15	NIST Webbook

Property	Value	Unit	Temperature (K)	Source
$C_{p,liquid}$	490.00	J/mol×K	300.0	NIST Webbook
$\Delta_{fus}H$	18.03	kJ/mol	295.3	NIST Webbook
$\Delta_{fus}S$	61.04	J/mol×K	295.3	NIST Webbook

Sources

Joback Method: https://en.wikipedia.org/wiki/Joback_method

NIST Webbook: [http://webbook.nist.gov/cgi/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/h6-14H,3-5H2,1-2H3](http://webbook.nist.gov/cgi/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/h6-14H,3-5H2,1-2H3)

Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci9903071>

Legend

$C_{p,liquid}$: Liquid phase heat capacity (J/mol×K).

$\Delta_f H^\circ_{gas}$: Enthalpy of formation at standard conditions (kJ/mol).

$\Delta_{fus}H$: Enthalpy of fusion at a given temperature (kJ/mol).

$\Delta_{vap}H^\circ$: Enthalpy of vaporization at standard conditions (kJ/mol).

$\log P_{oct/wat}$: Octanol/Water partition coefficient .

P_c : Critical Pressure (kPa).

$\Delta_{fus}S$: Entropy of fusion at a given temperature (J/mol×K).

T_{boil} : Normal Boiling Point Temperature (K).

T_c : Critical Temperature (K).

T_{triple} : Triple Point Temperature (K).

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