

p-Ethoxybenzylidene p-butylaniline

Other names:	p-Ethoxybenzylidene p-butylaniline Benzenamine, 4-butyl-N-[(4-ethoxyphenyl)methylene]- 4-Butyl-N-[(4-ethoxyphenyl)methylidene]aniline N-p-Ethoxybenzylidene-p-butylaniline N-(4'-Ethoxybenzylidene)-4-n-butylaniline N-(4-Ethoxybenzylidene)-4-butylaniline p-[(p-Ethoxybenzylidene)amino]butylbenzene N-p-Ethoxybenzylidene-p'-butylaniline
Inchi:	InChI=1S/C19H23NO/c1-3-5-6-16-7-11-18(12-8-16)20-15-17-9-13-19(14-10-17)21-4-2/h
InchiKey:	DBOAVDSSZWGDGTH-UHFFFAOYSA-N
Formula:	C19H23NO
SMILES:	CCCCc1ccc(N=Cc2ccc(OCC)cc2)cc1
Mol. weight [g/mol]:	281.40

Physical Properties

Property code	Value	Unit	Source
ie	7.57	eV	Cheméo Relay (1.0)
logp	5.178		Crippen Method
mcvol	242.600	ml/mol	McGowan Method
ss	421.79	J/mol×K	NIST Webbook
tb	670.32	K	Cheméo Relay (1.0)
tf	341.76	K	Cheméo Relay (1.0)
tt	305.62 ± 0.02	K	NIST Webbook
tt	305.62 ± 0.02	K	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cps	429.09	J/mol×K	298.15	NIST Webbook
cps	425.00	J/mol×K	300.00	NIST Webbook
hfust	27.09	kJ/mol	305.62	NIST Webbook
hfust	27.09	kJ/mol	305.62	NIST Webbook
hfust	27.09	kJ/mol	305.62	NIST Webbook
sfust	88.71	J/mol×K	305.62	NIST Webbook

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Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C29743086&Units=SI
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

Legend

cps:	Solid phase heat capacity
hfust:	Enthalpy of fusion at a given temperature
ie:	Ionization energy
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
sfust:	Entropy of fusion at a given temperature
ss:	Solid phase molar entropy at standard conditions
tb:	Normal Boiling Point Temperature
tf:	Normal melting (fusion) point
tt:	Triple Point Temperature

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