4-Butyl-N-(4-ethoxybenzylidene)aniline

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:	DBOAVDSSZWDGTH-UHFFFAOYSA-N
Formula:	C19H23NO
SMILES:	CCCCc1ccc(N=Cc2ccc(OCC)cc2)cc1
Mol. weight [g/mol]:	281.39
CAS:	29743-08-6

Physical Properties

Property code	Value	Unit	Source
hf	-35.37	kJ/mol	Joback Method
hvap	69.49	kJ/mol	Joback Method
log10ws	-5.52		Crippen Method
logp	5.178		Crippen Method
mcvol	242.600	ml/mol	McGowan Method
pc	1559.81	kPa	Joback Method
ss	421.79	J/mol×K	NIST Webbook
tb	796.54	K	Joback Method
tc	1025.77	K	Joback Method
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
sfust	88.71	J/mol×K	305.62	NIST Webbook
sfust	88.71	J/mol×K	305.62	NIST Webbook

Sources

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

Legend

cps:	Solid phase heat capacity
hf:	Enthalpy of formation at standard conditions
hfust:	Enthalpy of fusion at a given temperature
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
sfust:	Entropy of fusion at a given temperature
ss:	Solid phase molar entropy at standard conditions
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tt:	Triple Point Temperature