Benzenamine, 4-butoxy-

Other names:	4-Butoxyaniline
	p-Butoxyaniline
	p-Butyloxyaniline
	Aniline, p-butoxy-
	p-Aminophenol n-butyl ether
	p-Aminophenyl-n-butyl ether
Inchi:	InChI=1S/C10H15NO/c1-2-3-8-12-10-6-4-9(11)5-7-10/h4-7H,2-3,8,11H2,1H3
InchiKey:	UBRIHZOFEJHMIT-UHFFFAOYSA-N
Formula:	C10H15NO
SMILES:	CCCCOc1ccc(N)cc1
Mol. weight [g/mol]:	165.23
CAS:	4344-55-2

Physical Properties

Property code	Value	Unit	Source
gf	97.55	kJ/mol	Joback Method
hf	-123.10	kJ/mol	Joback Method
hfus	21.69	kJ/mol	Joback Method
hvap	53.84	kJ/mol	Joback Method
log10ws	-2.48		Crippen Method
logp	2.448		Crippen Method
mcvol	143.850	ml/mol	McGowan Method
pc	3012.33	kPa	Joback Method
tb	554.81	K	Joback Method
tc	769.29	K	Joback Method
tf	346.89	K	Joback Method
vc	0.534	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	340.61	J/mol×K	554.81	Joback Method
cpg	354.92	J/mol×K	590.56	Joback Method
cpg	368.46	J/mol×K	626.30	Joback Method

cpg	381.25	J/mol×K	662.05	Joback Method
cpg	393.29	J/mol×K	697.79	Joback Method
cpg	404.62	J/mol×K	733.54	Joback Method
cpg	415.25	J/mol×K	769.29	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	421.70	K	1.70	NIST Webbook
tbrp	358.00 ± 1.00	K	0.01	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=C4344552&Units=SI

Legend

cpg: Ideal gas heat capacity
gf: Standard Gibbs free energy of formation
hf: Enthalpy of formation at standard conditions
hfus: Enthalpy of fusion at standard conditions
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
tb: Normal Boiling Point Temperature
tbrp: Boiling point at reduced pressure
tc: Critical Temperature
tf: Normal melting (fusion) point
vc: Critical Volume