4-Ethoxy-4'-butylazobenzene

Inchi: InChI=1S/C18H22N2O/c1-3-5-6-15-7-9-16(10-8-15)19-20-17-11-13-18(14-12-17)21-4-2/h
InchiKey: VWOMPNGMNROKFP-FMQUCBEESA-N
Formula: C18H22N2O
SMILES: CCCCc1ccc(N=Nc2ccc(OCC)cc2)cc1
Mol. weight [g/mol]: 282.38
CAS: 31401-34-0

Physical Properties

Property code	Value	Unit	Source
hf	-49.73	kJ/mol	Joback Method
hvap	70.62	kJ/mol	Joback Method
log10ws	-5.69		Crippen Method
logp	5.843		Crippen Method
mcvol	238.490	ml/mol	McGowan Method
pc	1487.29	kPa	Joback Method
tb	846.18	K	Joback Method
tc	1082.87	K	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpl	535.00	J/mol×K	325.49	NIST Webbook

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C31401340&Units=SI
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

Legend

cpl:	Liquid phase heat capacity
hf:	Enthalpy of formation 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
tc:	Critical Temperature