Azobenzene, 4,4'-dibromo-

Other names:	Diazene, bis(4-bromophenyl)-
	4,4'-Dibromoazobenzene
	p,p'-Dibromoazobenzene
	4,4'-Dibromazobenzen
Inchi:	InChI=1S/C12H8Br2N2/c13-9-1-5-11(6-2-9)15-16-12-7-3-10(14)4-8-12/h1-8H
InchiKey:	LTPLLZWVPBTAMH-UHFFFAOYSA-N
Formula:	C12H8Br2N2
SMILES:	Brc1ccc(N=Nc2ccc(Br)cc2)cc1
Mol. weight [g/mol]:	340.01
CAS:	1601-98-5

Physical Properties

Property code	Value	Unit	Source
hf	258.99	kJ/mol	Joback Method
hvap	67.72	kJ/mol	Joback Method
ie	9.24	eV	NIST Webbook
log10ws	-5.84		Crippen Method
logp	5.627		Crippen Method
mcvol	183.080	ml/mol	McGowan Method
pc	2884.30	kPa	Joback Method
tb	818.80	K	Joback Method
tc	1110.65	K	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C1601985&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

hf:	Enthalpy of formation at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
ie:	Ionization energy
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