Benzidine, 3,3'-dimethoxy-

Other names:

[1,1'-Biphenyl]-4,4'-diamine, 3,3'-dimethoxy-
o-Dianisidine
Amacel Developed Navy SD
Azogene Fast Blue B
Blue Base Irga B
Blue Base NB
Blue BN Base
C.I. Disperse Black 6
Cellitazol B
Cibacete Diazo Navy Blue 2B
Diacel Navy DC
Dianisidine
Fast Blue B Base
Fast Blue Base B
Fast Blue DSC Base
Hiltonil Fast Blue B Base
Kayaku Blue B Base
Lake Blue B Base
Mitsui Blue B Base
Naphthanil Blue B Base
Setacyl Diazo Navy R
3,3'-Dimethoxy-4,4'-diaminodiphenyl
3,3'-Dimethoxybenzidine
4,4'-Bi-o-anisidine
4,4'-Diamino-3,3'-dimethoxybiphenyl
4,4'-Diamino-3,3'-dimethoxydiphenyl
o-Dianisidina
o-Dimethoxybenzidine
O,O'-Dianisidine
Acetamine diazo navy rd
Acetamine Diazo Black RD
Azoene Fast Blue Base
Azoene Fast Blue Salt
Azofix Blue B Salt
Azogene Fast Blue B Salt
Blue BN Salt
Blue Salt NB
Brentamine Fast Blue B Base
Brentamine Fast Blue B Salt
C.I. Azoic Diazo Component 48

C.I. 24110
Cellitazol BN
Diacelliton fast grey G
Diato Blue Base B
Diato Blue Salt B
Diazo Fast Blue B
Disperse Black 6
Fast Blue BN Salt
Fast Blue DS Salt
Fast Blue Salt B
Fast Blue Salt BN
Hiltosal Fast Blue B Salt
Hindasol Blue B Salt
Kako Blue B Salt
Kayaku Blue B Salt
Meisei Teryl Diazo Blue HR
Mitsui Blue B Salt
Natasol Blue B Salt
Neutrosel navy BN
Sanyo Fast Blue Salt B
Spectrolene Blue B
3,3'-Dimethoxybenzidin
3,3'-Dimetossibenzodina
o-Dianisidin
3,3'-Dianisidine
RCRA Waste number U091
4,4'-Diamino-3,3'-dimethoxy-1,1'-biphenyl
3,3'-Dimethoxy-4,4'-diaminobiphenyl
3,3'-Dimethoxybenzidene

Inchi: InChI=1S/C14H16N2O2/c1-17-13-7-9(3-5-11(13)15)10-4-6-12(16)14(8-10)18-2/h3-8H,15

InchiKey: JRBJSXQPQWSCCF-UHFFFAOYSA-N

Formula: C14H16N2O2

SMILES: COc1cc(-c2ccc(N)c(OC)c2)ccc1N

Mol. weight [g/mol]: 244.29

CAS: 119-90-4

Physical Properties

Property code	Value	Unit	Source
gf	176.20	kJ/mol	Joback Method

hf	-101.97	kJ/mol	Joback Method
hfus	31.31	kJ/mol	Joback Method
hvap	80.06	kJ/mol	Joback Method
log10ws	-3.58		Crippen Method
logp	2.535		Crippen Method
mcvol	192.300	ml/mol	McGowan Method
pc	2829.33	kPa	Joback Method
tb	782.90	K	Joback Method
tc	1029.33	K	Joback Method
tf	561.44	K	Joback Method
vc	0.698	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	541.86	J/mol×K	782.90	Joback Method
cpg	555.62	J/mol×K	823.97	Joback Method
cpg	568.20	J/mol×K	865.04	Joback Method
cpg	579.61	J/mol×K	906.12	Joback Method
cpg	589.85	J/mol×K	947.19	Joback Method
cpg	598.94	J/mol×K	988.26	Joback Method
cpg	606.89	J/mol×K	1029.33	Joback Method

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=C119904&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
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume