

# Benzaldehyde, 4-((4-(dimethylamino)phenyl)azo)-

Other names:

4'-Formyl-N,N-dimethyl-4-aminoazobenzene

4-(4-(Dimethylamino)phenyl]diazenyl)benzaldehyde

Inchi: InChI=1S/C15H15N3O/c1-18(2)15-9-7-14(8-10-15)17-16-13-5-3-12(11-19)4-6-13/h3-11H

InchiKey: CVURSMYMOJMTTI-UHFFFAOYSA-N

Formula: C15H15N3O

SMILES: CN(C)c1ccc(N=Nc2ccc(C=O)cc2)cc1

Mol. weight [g/mol]: 253.30

CAS: 39208-00-9

## Physical Properties

Property code	Value	Unit	Source
hf	126.36	kJ/mol	Joback Method
hvap	70.29	kJ/mol	Joback Method
log10ws	-3.66		Crippen Method
logp	3.981		Crippen Method
mcvol	201.900	ml/mol	McGowan Method
pc	2036.39	kPa	Joback Method
tb	816.22	K	Joback Method
tc	1065.75	K	Joback Method

## Sources

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C39208009&Units=SI>

Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci9903071>

Crippen Method: [https://www.chemeo.com/doc/models/crippen\\_log10ws](https://www.chemeo.com/doc/models/crippen_log10ws)

Joback Method: [https://en.wikipedia.org/wiki/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

<b>h<sub>vap</sub>:</b>	Enthalpy of vaporization at standard conditions
<b>log<sub>10</sub>w<sub>s</sub>:</b>	Log10 of Water solubility in mol/l
<b>log<sub>p</sub>:</b>	Octanol/Water partition coefficient
<b>mc<sub>vol</sub>:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature

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