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

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=C39208009&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

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