Benzaldehyde, 4-nitro-, [(4-nitrophenyl)methylene]hydrazone

Other names: Benzaldehyde, p-nitro-, azine
p-Nitrobenzaldehyde, azine

Inchi: InChI=1S/C14H10N4O4/c19-17(20)13-5-1-11(2-6-13)9-15-16-10-12-3-7-14(8-4-12)18(21

InchiKey: YWEOYAUKSPQBMW-UHFFFAOYSA-N

Formula: C14H10N4O4

SMILES: O=[N+]([O-])c1ccc(C=NN=Cc2ccc([N+](=O)[O-])cc2)cc1

Mol. weight [g/mol]: 298.25

CAS: 2143-99-9

Physical Properties

Property code	Value	Unit	Source
hf	260.75	kJ/mol	Joback Method
hvap	92.44	kJ/mol	Joback Method
log10ws	-4.71		Crippen Method
logp	2.956		Crippen Method
mcvol	206.800	ml/mol	McGowan Method
pc	2233.41	kPa	Joback Method
tb	1040.08	K	Joback Method
tc	1335.86	K	Joback Method

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C2143999&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
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