P-phthalaldehydic acid 2,4-dinitro-phenylhydrazone

Inchi: InChI=1S/C14H10N4O6/c19-14(20)10-3-1-9(2-4-10)8-15-16-12-6-5-11(17(21)22)7-13(12

InchiKey: OAPJJTZEZJOURT-OVCLIPMQSA-N

Formula: C14H10N4O6

SMILES: O=C(O)c1ccc(C=NNc2ccc([N+](=O)[O-])cc2[N+](=O)[O-])cc1

Mol. weight [g/mol]: 330.25

CAS: 39101-77-4

Physical Properties

Property code	Value	Unit	Source
hf	-44.28	kJ/mol	Joback Method
hvap	119.65	kJ/mol	Joback Method
log10ws	-4.71		Crippen Method
logp	2.647		Crippen Method
mcvol	218.540	ml/mol	McGowan Method
pc	2896.73	kPa	Joback Method
tb	1164.60	K	Joback Method
tc	1438.89	K	Joback Method

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C39101774&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