Formaldehyde, (2,4-dinitrophenyl)hydrazone

Other names: Methanal 2,4-dinitrophenylhydrazone

Inchi: InChI=1S/C7H6N4O4/c1-8-9-6-3-2-5(10(12)13)4-7(6)11(14)15/h2-4,9H,1H2

InchiKey: UEQLSLWCHGLSML-UHFFFAOYSA-N

Formula: C7H6N4O4

SMILES: C=NNc1ccc([N+](=O)[O-])cc1[N+](=O)[O-]

Mol. weight [g/mol]: 210.15

CAS: 1081-15-8

Physical Properties

Property code	Value	Unit	Source
hf	148.16	kJ/mol	Joback Method
hvap	77.08	kJ/mol	Joback Method
log10ws	-2.94		Crippen Method
logp	1.530		Crippen Method
mcvol	136.230	ml/mol	McGowan Method
pc	3598.56	kPa	Joback Method
tb	819.25	K	Joback Method
tc	1094.48	K	Joback Method

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C1081158&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

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

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