Ethanone, 1-phenyl-, (2,4-dinitrophenyl)hydrazone

Other names: Acetophenone, (2,4-dinitrophenyl)hydrazone
1-phenylethan-1-one (2,4-dinitrophenyl)hydrazone

Inchi: InChI=1S/C14H12N4O4/c1-10(11-5-3-2-4-6-11)15-16-13-8-7-12(17(19)20)9-14(13)18(21

InchiKey: IMTAQIPVTJOORO-UHFFFAOYSA-N

Formula: C14H12N4O4

SMILES: CC(=NNc1ccc([N+](=O)[O-])cc1[N+](=O)[O-])c1ccccc1

Mol. weight [g/mol]: 300.27

CAS: 1677-87-8

Physical Properties

Property code	Value	Unit	Source
hf	222.21	kJ/mol	Joback Method
hvap	95.65	kJ/mol	Joback Method
log10ws	-5.07		Crippen Method
logp	3.339		Crippen Method
mcvol	211.100	ml/mol	McGowan Method
pc	2517.59	kPa	Joback Method
tb	1013.45	K	Joback Method
tc	1299.07	K	Joback Method

Sources

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

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C1677878&Units=SI

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