Acetone, (2,4-dinitrophenyl)hydrazone

Other names: 2-Propanone, (2,4-dinitrophenyl)hydrazone
Inchi: InChI=1S/C9H10N4O4/c1-6(2)10-11-8-4-3-7(12(14)15)5-9(8)13(16)17/h3-5,11H,1-2H3
InchiKey: YGIXYAIGWMAGIB-UHFFFAOYSA-N
Formula: C9H10N4O4
SMILES: CC(C)=NNc1ccc([N+](=O)[O-])cc1[N+](=O)[O-]
Mol. weight [g/mol]: 238.20
CAS: 1567-89-1

Physical Properties

Property code	Value	Unit	Source
hf	88.88	kJ/mol	Joback Method
hvap	82.24	kJ/mol	Joback Method
log10ws	-3.77		Crippen Method
logp	2.311		Crippen Method
mcvol	164.410	ml/mol	McGowan Method
pc	2940.89	kPa	Joback Method
rinpol	2272.00		NIST Webbook
tb	872.37	K	Joback Method
tc	1143.86	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=C1567891&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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature