3-Pentanone, (2,4-dinitrophenyl)hydrazone

Inchi: InChI=1S/C11H14N4O4/c1-3-8(4-2)12-13-10-6-5-9(14(16)17)7-11(10)15(18)19/h5-7,13H
InchiKey: JSDIYPWOZUVCKW-UHFFFAOYSA-N
Formula: C11H14N4O4
SMILES: CCC(CC)=NNc1ccc([N+](=O)[O-])cc1[N+](=O)[O-]
Mol. weight [g/mol]: 266.25
CAS: 1636-83-5

Physical Properties

Property code	Value	Unit	Source
hf	47.60	kJ/mol	Joback Method
hvap	86.69	kJ/mol	Joback Method
log10ws	-4.61		Crippen Method
logp	3.091		Crippen Method
mcvol	192.590	ml/mol	McGowan Method
pc	2412.37	kPa	Joback Method
rinpol	2399.00		NIST Webbook
rinpol	2399.00		NIST Webbook
tb	918.13	K	Joback Method
tc	1178.87	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=C1636835&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