3-Penten-2-one, 2,4-dinitrophenylhydrazone

Inchi: InChI=1S/C11H12N4O4/c1-3-4-8(2)12-13-10-6-5-9(14(16)17)7-11(10)15(18)19/h3-7,13H
InchiKey: WSGQQBRVKFRFJN-ALUKSYHCSA-N
Formula: C11H12N4O4
SMILES: CC=CC(C)=NNc1ccc([N+](=O)[O-])cc1[N+](=O)[O-]
Mol. weight [g/mol]: 264.24
CAS: 4938-74-3

Physical Properties

Property code	Value	Unit	Source
hf	164.82	kJ/mol	Joback Method
hvap	86.65	kJ/mol	Joback Method
log10ws	-4.46		Crippen Method
logp	2.867		Crippen Method
mcvol	188.290	ml/mol	McGowan Method
pc	2540.49	kPa	Joback Method
tb	922.29	K	Joback Method
tc	1191.59	K	Joback Method

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C4938743&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