2-Hexanone, (2,4-dinitrophenyl)hydrazone

Inchi: InChI=1S/C12H16N4O4/c1-3-4-5-9(2)13-14-11-7-6-10(15(17)18)8-12(11)16(19)20/h6-8,1
InchiKey: ZQAHBVPRAUEYPQ-UHFFFAOYSA-N
Formula: C12H16N4O4
SMILES: CCCCC(C)=NNc1ccc([N+](=O)[O-])cc1[N+](=O)[O-]
Mol. weight [g/mol]: 280.28
CAS: 2348-17-6

Physical Properties

Property code	Value	Unit	Source
hf	26.96	kJ/mol	Joback Method
hvap	88.92	kJ/mol	Joback Method
log10ws	-5.03		Crippen Method
logp	3.481		Crippen Method
mcvol	206.680	ml/mol	McGowan Method
pc	2200.01	kPa	Joback Method
rinpol	2527.00		NIST Webbook
tb	941.01	K	Joback Method
tc	1197.47	K	Joback Method

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C2348176&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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature