2-Butanone,3-oxo-,(2,4-dinitrophenyl)hydrazone

Inchi: InChI=1S/C10H10N4O5/c1-6(7(2)15)11-12-9-4-3-8(13(16)17)5-10(9)14(18)19/h3-5,12H,
InchiKey: CMMZDRNKABQCMK-UHFFFAOYSA-N
Formula: C10H10N4O5
SMILES: CC(=O)C(C)=NNc1ccc([N+](=O)[O-])cc1[N+](=O)[O-]
Mol. weight [g/mol]: 266.21

Physical Properties

Property code	Value	Unit	Source
hf	-44.34	kJ/mol	Joback Method
hvap	91.21	kJ/mol	Joback Method
log10ws	-3.47		Crippen Method
logp	1.880		Crippen Method
mcvol	180.070	ml/mol	McGowan Method
pc	2838.39	kPa	Joback Method
rinpol	2411.00		NIST Webbook
tb	949.12	K	Joback Method
tc	1218.54	K	Joback Method

Sources

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=U143494&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

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