Octanal, (2,4-dinitrophenyl)hydrazone

Other names: Octanal-2,4-dinitrophenylhydrazine
Inchi: InChI=1S/C14H20N4O4/c1-2-3-4-5-6-7-10-15-16-13-9-8-12(17(19)20)11-14(13)18(21)22
InchiKey: HIPWOUSEWCCFDN-UHFFFAOYSA-N
Formula: C14H20N4O4
SMILES: CCCCCCCC=NNc1ccc([N+](=O)[O-])cc1[N+](=O)[O-]
Mol. weight [g/mol]: 308.33
CAS: 1726-77-8

Physical Properties

Property code	Value	Unit	Source
hf	-4.53	kJ/mol	Joback Method
hvap	93.29	kJ/mol	Joback Method
log10ws	-5.87		Crippen Method
logp	4.261		Crippen Method
mcvol	234.860	ml/mol	McGowan Method
pc	1843.58	kPa	Joback Method
rinpol	2763.00		NIST Webbook
rinpol	2763.00		NIST Webbook
tb	986.89	K	Joback Method
tc	1234.65	K	Joback Method

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C1726778&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