2,4-Dinitrophenylhydrazone of delta^3-cyclohexenylmethylketone

Other names: 2,4-Dinitrophenylhydrazone of delta
Inchi: InChI=1S/C14H16N4O4/c1-10(11-5-3-2-4-6-11)15-16-13-8-7-12(17(19)20)9-14(13)18(21
InchiKey: WTTPBKPSZIVRBZ-XNTDXEJSSA-N
Formula: C14H16N4O4
SMILES: CC(=NNc1ccc([N+](=O)[O-])cc1[N+](=O)[O-])C1CC=CCC1
Mol. weight [g/mol]: 304.30
CAS: 7350-34-7

Physical Properties

Property code	Value	Unit	Source
hf	97.78	kJ/mol	Joback Method
hvap	94.09	kJ/mol	Joback Method
log10ws	-5.37		Crippen Method
logp	3.647		Crippen Method
mcvol	219.700	ml/mol	McGowan Method
pc	2304.74	kPa	Joback Method
tb	1005.48	K	Joback Method
tc	1286.79	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=C7350347&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature

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