2-Undecanone 2,4-dinitrophenylhydrazone

Other names: 2,4-dinitrophenylhydrazone 2-undecanone
Inchi: InChI=1S/C17H26N4O4/c1-3-4-5-6-7-8-9-10-14(2)18-19-16-12-11-15(20(22)23)13-17(16
InchiKey: IUEBGTPEQHNPFM-UHFFFAOYSA-N
Formula: C17H26N4O4
SMILES: CCCCCCCCCC(C)=NNc1ccc([N+](=O)[O-])cc1[N+](=O)[O-]
Mol. weight [g/mol]: 350.41
CAS: 2121-90-6

Physical Properties

Property code	Value	Unit	Source
hf	-76.24	kJ/mol	Joback Method
hvap	100.05	kJ/mol	Joback Method
log10ws	-7.12		Crippen Method
logp	5.431		Crippen Method
mcvol	277.130	ml/mol	McGowan Method
pc	1465.73	kPa	Joback Method
rinpol	2988.00		NIST Webbook
rinpol	2988.00		NIST Webbook
tb	1055.41	K	Joback Method
tc	1302.71	K	Joback Method

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C2121906&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