2,4-dinitrophenylhydrazone nonanal

Inchi: InChI=1S/C15H22N4O4/c1-2-3-4-5-6-7-8-11-16-17-14-10-9-13(18(20)21)12-15(14)19(22
InchiKey: STBNOHBRCCXRIK-UHFFFAOYSA-N
Formula: C15H22N4O4
SMILES: CCCCCCCCC=NNc1ccc([N+](=O)[O-])cc1[N+](=O)[O-]
Mol. weight [g/mol]: 322.36

Physical Properties

Property code	Value	Unit	Source
hf	-25.17	kJ/mol	Joback Method
hvap	95.52	kJ/mol	Joback Method
log10ws	-6.29		Crippen Method
logp	4.651		Crippen Method
mcvol	248.950	ml/mol	McGowan Method
pc	1700.50	kPa	Joback Method
rinpol	2857.00		NIST Webbook
rinpol	2857.00		NIST Webbook
tb	1009.77	K	Joback Method
tc	1255.98	K	Joback Method

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=R139961&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
McGowan Method: http://link.springer.com/article/10.1007/BF02311772

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

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