

Heptanal, (2,4-dinitrophenyl)hydrazone

Other names:	Heptaldehyde, 2,4-dinitrophenyl hydrazone
Inchi:	InChI=1S/C13H18N4O4/c1-2-3-4-5-6-9-14-15-12-8-7-11(16(18)19)10-13(12)17(20)21/h7
InchiKey:	HAPHKPXFYXPWDK-UHFFFAOYSA-N
Formula:	C13H18N4O4
SMILES:	CCCCCCC=NNc1ccc([N+](=O)[O-])cc1[N+](=O)[O-]
Mol. weight [g/mol]:	294.31
CAS:	2074-05-7

Physical Properties

Property code	Value	Unit	Source
hf	16.11	kJ/mol	Joback Method
hvap	91.06	kJ/mol	Joback Method
log10ws	-5.45		Crippen Method
logp	3.871		Crippen Method
mcvol	220.770	ml/mol	McGowan Method
pc	2005.50	kPa	Joback Method
rinpol	2666.00		NIST Webbook
rinpol	2666.00		NIST Webbook
tb	964.01	K	Joback Method
tc	1214.16	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=C2074057&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

Legend

hf:	Enthalpy of formation at standard conditions
hvac:	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
rinqol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature

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