Acetaldehyde, (2,4-dinitrophenyl)hydrazone

Other names:	Ethanal 2,4-dinitrophenylhydrazone
	NSC 403216
	Ethanal DNPH, peak # 2
Inchi:	InChI=1S/C8H8N4O4/c1-2-9-10-7-4-3-6(11(13)14)5-8(7)12(15)16/h2-5,10H,1H3
InchiKey:	ONBOQRNOMHHDFB-UHFFFAOYSA-N
Formula:	C8H8N4O4
SMILES:	CC=NNc1ccc([N+](=O)[O-])cc1[N+](=O)[O-]
Mol. weight [g/mol]:	224.17
CAS:	1019-57-4

Physical Properties

Property code	Value	Unit	Source
hf	119.31	kJ/mol	Joback Method
hvap	79.93	kJ/mol	Joback Method
log10ws	-3.36		Crippen Method
logp	1.921		Crippen Method
mcvol	150.320	ml/mol	McGowan Method
pc	3254.14	kPa	Joback Method
tb	849.61	K	Joback Method
tc	1123.10	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=C1019574&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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