Benzaldehyde, (2,4-dinitrophenyl)hydrazone

Other names: Benzaldehyde, 1-(2,4-dinitrophenyl)hydrazone
Inchi: InChI=1S/C13H10N4O4/c18-16(19)11-6-7-12(13(8-11)17(20)21)15-14-9-10-4-2-1-3-5-10
InchiKey: DZPRPFUXOZTWAJ-UHFFFAOYSA-N
Formula: C13H10N4O4
SMILES: O=[N+]([O-])c1ccc(NN=Cc2ccccc2)c([N+](=O)[O-])c1
Mol. weight [g/mol]: 286.24
CAS: 1157-84-2

Physical Properties

Property code	Value	Unit	Source
hf	252.64	kJ/mol	Joback Method
hvap	93.34	kJ/mol	Joback Method
log10ws	-4.65		Crippen Method
logp	2.949		Crippen Method
mcvol	197.010	ml/mol	McGowan Method
pc	2764.26	kPa	Joback Method
tb	990.69	K	Joback Method
tc	1278.27	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=C1157842&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