Propanal, (2,4-dinitrophenyl)hydrazone

Other names: Propionaldehyde, (2,4-dinitrophenyl)hydrazone
Inchi: InChI=1S/C9H10N4O4/c1-2-5-10-11-8-4-3-7(12(14)15)6-9(8)13(16)17/h3-6,11H,2H2,1H3
InchiKey: NFQHZOZOFGDSIN-UHFFFAOYSA-N
Formula: C9H10N4O4
SMILES: CCC=NNc1ccc([N+](=O)[O-])cc1[N+](=O)[O-]
Mol. weight [g/mol]: 238.20
CAS: 725-00-8

Physical Properties

Property code	Value	Unit	Source
hf	98.67	kJ/mol	Joback Method
hvap	82.16	kJ/mol	Joback Method
log10ws	-3.77		Crippen Method
logp	2.311		Crippen Method
mcvol	164.410	ml/mol	McGowan Method
pc	2925.00	kPa	Joback Method
tb	872.49	K	Joback Method
tc	1139.89	K	Joback Method

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C725008&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature