Benzaldehyde, 3-methyl-, (2,4-dinitrophenyl)hydrazone

Other names: m-Tolualdehyde, (2,4-dinitrophenyl)hydrazone
Inchi: InChI=1S/C14H12N4O4/c1-10-3-2-4-11(7-10)9-15-16-13-6-5-12(17(19)20)8-14(13)18(21
InchiKey: PQBRXQUGVASQBU-UHFFFAOYSA-N
Formula: C14H12N4O4
SMILES: Cc1cccc(C=NNc2ccc([N+](=O)[O-])cc2[N+](=O)[O-])c1
Mol. weight [g/mol]: 300.27
CAS: 2880-05-9

Physical Properties

Property code	Value	Unit	Source
hf	220.53	kJ/mol	Joback Method
hvap	96.23	kJ/mol	Joback Method
log10ws	-5.13		Crippen Method
logp	3.257		Crippen Method
mcvol	211.100	ml/mol	McGowan Method
pc	2467.81	kPa	Joback Method
tb	1018.55	K	Joback Method
tc	1301.04	K	Joback Method

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C2880059&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