

Propanal, 2-methyl-, (2,4-dinitrophenyl)hydrazone

Other names:	Isobutyraldehyde, 2,4-dinitrophenylhydrazone 2-Methylpropanal (2,4-dinitrophenyl)hydrazone Propanal, 2-methyl-, 2-(2,4-dinitrophenyl)hydrazone Isobutanal 2,4-dinitrophenylhydrazone
Inchi:	InChI=1S/C10H12N4O4/c1-7(2)6-11-12-9-4-3-8(13(15)16)5-10(9)14(17)18/h3-7,12H,1-2
InchiKey:	WYSDOKPZMGYVGI-UHFFFAOYSA-N
Formula:	C10H12N4O4
SMILES:	CC(C)C=NNc1ccc([N+](=O)[O-])cc1[N+](=O)[O-]
Mol. weight [g/mol]:	252.23
CAS:	2057-82-1

Physical Properties

Property code	Value	Unit	Source
hf	72.75	kJ/mol	Joback Method
hvap	84.00	kJ/mol	Joback Method
log10ws	-3.95		Crippen Method
logp	2.557		Crippen Method
mcvol	178.500	ml/mol	McGowan Method
pc	2665.27	kPa	Joback Method
rinsol	2312.00		NIST Webbook
tb	894.93	K	Joback Method
tc	1161.43	K	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C2057821&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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

Legend

hf:	Enthalpy of formation at standard conditions
h_{vap}:	Enthalpy of vaporization at standard conditions
log₁₀ws:	Log ₁₀ of Water solubility in mol/l
log_p:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature

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