

# Pentanal, 2,4,6-trichlorophenyl hydrazone, #1

**Inchi:** InChI=1S/C11H13Cl3N2/c1-2-3-4-5-15-16-11-9(13)6-8(12)7-10(11)14/h5-7,16H,2-4H2,1  
**InchiKey:** PGLKSYVQUISHTE-PJQLUOCWSA-N  
**Formula:** C11H13Cl3N2  
**SMILES:** CCCCC=NNc1c(Cl)cc(Cl)cc1Cl  
**Mol. weight [g/mol]:** 279.59

## Physical Properties

Property code	Value	Unit	Source
hf	20.22	kJ/mol	Joback Method
hvap	67.25	kJ/mol	Joback Method
log10ws	-5.36		Crippen Method
logp	5.235		Crippen Method
mcvol	194.470	ml/mol	McGowan Method
pc	2083.12	kPa	Joback Method
rinpol	2034.00		NIST Webbook
tb	731.84	K	Joback Method
tc	963.16	K	Joback Method

## Sources

**Crippen Method:** <http://pubs.acs.org/doi/abs/10.1021/ci9903071>  
**Crippen Method:** [https://www.chemeo.com/doc/models/crippen\\_log10ws](https://www.chemeo.com/doc/models/crippen_log10ws)  
**Joback Method:** [https://en.wikipedia.org/wiki/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=R85198&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

<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature

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