# 4-Heptanone, 2,4,6-trichlorophenyl hydrazone

**Inchi:** InChI=1S/C13H17Cl3N2/c1-3-5-10(6-4-2)17-18-13-11(15)7-9(14)8-12(13)16/h7-8,18H,3-
**InchiKey:** SIRUAUHIUOMVNQ-UHFFFAOYSA-N
**Formula:** C13H17Cl3N2
**SMILES:** CCCC(CCC)=NNc1c(Cl)cc(Cl)cc1Cl
**Mol. weight [g/mol]:** 307.65

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| hf | -30.85 | kJ/mol | Joback Method |
| hvap | 71.78 | kJ/mol | Joback Method |
| log10ws | -6.20 | | Crippen Method |
| logp | 6.015 | | Crippen Method |
| mcvol | 222.650 | ml/mol | McGowan Method |
| pc | 1768.38 | kPa | Joback Method |
| rinpol | 2133.00 | | NIST Webbook |
| rinpol | 2133.00 | | NIST Webbook |
| tb | 777.48 | K | Joback Method |
| tc | 1004.50 | K | Joback Method |

## Sources

**NIST Webbook:** http://webbook.nist.gov/cgi/cbook.cgi?ID=R85045&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
**McGowan Method:** http://link.springer.com/article/10.1007/BF02311772

## 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 |
| **rinpol:** | Non-polar retention indices |
| **tb:** | Normal Boiling Point Temperature |
| **tc:** | Critical Temperature |