# Benzil, phenylhydrazone

**Inchi:** InChI=1S/C20H16N2O/c23-20(17-12-6-2-7-13-17)19(16-10-4-1-5-11-16)22-21-18-14-8-3
**InchiKey:** FUDFOMIUCNYRPS-ZBJSNUHESA-N
**Formula:** C20H16N2O
**SMILES:** O=C(C(=NNc1ccccc1)c1ccccc1)c1ccccc1
**Mol. weight [g/mol]:** 300.35
**CAS:** 6630-86-0

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| chs | -10425.00 | kJ/mol | NIST Webbook |
| hf | 266.78 | kJ/mol | Joback Method |
| hfs | 224.00 | kJ/mol | NIST Webbook |
| hvap | 83.52 | kJ/mol | Joback Method |
| log10ws | -5.24 | | Crippen Method |
| logp | 4.386 | | Crippen Method |
| mcvol | 238.610 | ml/mol | McGowan Method |
| pc | 2125.60 | kPa | Joback Method |
| tb | 917.64 | K | Joback Method |
| tc | 1188.80 | K | Joback Method |

## Sources

**McGowan Method:** http://link.springer.com/article/10.1007/BF02311772
**NIST Webbook:** http://webbook.nist.gov/cgi/cbook.cgi?ID=C6630860&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

**chs:** Standard solid enthalpy of combustion

| | |
|---|---|
| **hf:** | Enthalpy of formation at standard conditions |
| **hfs:** | Solid phase 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 |