

# 2-UNDECANONE 2,4-DINITROPHENYLHYDRAZONE

**Other names:** 2,4-dinitrophenylhydrazone 2-undecanone  
**Inchi:** InChI=1S/C17H26N4O4/c1-3-4-5-6-7-8-9-10-14(2)18-19-16-12-11-15(20(22)23)13-17(16)  
**InchiKey:** IUEBGTPEQHNPFM-UHFFFAOYSA-N  
**Formula:** C17H26N4O4  
**SMILES:** CCCCCCCCCCC(C)=NNc1ccc([N+](=O)[O-])cc1[N+](=O)[O-]  
**Mol. weight [g/mol]:** 350.42

## Physical Properties

| Property code | Value   | Unit   | Source             |
|---------------|---------|--------|--------------------|
| logp          | 5.431   |        | Crippen Method     |
| mcvol         | 277.130 | ml/mol | McGowan Method     |
| rinpol        | 2988.00 |        | NIST Webbook       |
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| tf            | 370.40  | K      | Cheméo Relay (1.0) |

## Sources

**McGowan Method:** <http://link.springer.com/article/10.1007/BF02311772>  
**Crippen Method:** <http://pubs.acs.org/doi/abs/10.1021/ci990307l>  
**Crippen Method:** [https://www.chemeo.com/doc/models/crippen\\_log10ws](https://www.chemeo.com/doc/models/crippen_log10ws)  
**Cheméo Relay (1.0):**  
**Cheméo Relay (1.0, beta):**  
**NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=C2121906&Units=SI>  
**Joback Method:** [https://en.wikipedia.org/wiki/Joback\\_method](https://en.wikipedia.org/wiki/Joback_method)

## Legend

**logp:** Octanol/Water partition coefficient  
**mcvol:** McGowan's characteristic volume  
**rinpol:** Non-polar retention indices  
**tf:** Normal melting (fusion) point

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