# Phenylacetamide, N-heptyl-

**Inchi:** InChI=1S/C15H23NO/c1-2-3-4-5-9-12-16-15(17)13-14-10-7-6-8-11-14/h6-8,10-11H,2-5,9
**InchiKey:** ISTRCHUUBRFZEZ-UHFFFAOYSA-N
**Formula:** C15H23NO
**SMILES:** CCCCCCCN=C(O)Cc1ccccc1
**Mol. weight [g/mol]:** 233.35

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| hf | -196.20 | kJ/mol | Joback Method |
| hvap | 71.33 | kJ/mol | Joback Method |
| log10ws | -4.19 | | Crippen Method |
| logp | 4.156 | | Crippen Method |
| mcvol | 210.000 | ml/mol | McGowan Method |
| pc | 1834.11 | kPa | Joback Method |
| rinpol | 2002.00 | | NIST Webbook |
| tb | 738.02 | K | Joback Method |
| tc | 936.48 | K | Joback Method |

## Sources

**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
**NIST Webbook:** http://webbook.nist.gov/cgi/cbook.cgi?ID=U407228&Units=SI
**Crippen Method:** http://pubs.acs.org/doi/abs/10.1021/ci990307l

## 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 |