# N-(2-Phenylethyl)(2E,6Z,8E)-decatrienamide

**Inchi:** InChI=1S/C18H23NO/c1-2-3-4-5-6-7-11-14-18(20)19-16-15-17-12-9-8-10-13-17/h2-5,8-1
**InchiKey:** ZVLFTTDBSQNTOB-RSQSAPEFSA-N
**Formula:** C18H23NO
**SMILES:** CC=CC=CCCC=CC(=O)NCCc1ccccc1
**Mol. weight [g/mol]:** 269.38

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 414.22 | kJ/mol | Joback Method |
| hf | 114.23 | kJ/mol | Joback Method |
| hfus | 43.72 | kJ/mol | Joback Method |
| hvap | 70.99 | kJ/mol | Joback Method |
| log10ws | -4.99 | | Crippen Method |
| logp | 3.814 | | Crippen Method |
| mcvol | 239.370 | ml/mol | McGowan Method |
| pc | 1760.97 | kPa | Joback Method |
| rinpol | 2006.00 | | NIST Webbook |
| rinpol | 2006.00 | | NIST Webbook |
| tb | 754.44 | K | Joback Method |
| tc | 967.59 | K | Joback Method |
| tf | 406.39 | K | Joback Method |
| vc | 0.916 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 669.45 | J/mol×K | 754.44 | Joback Method |
| cpg | 685.47 | J/mol×K | 789.96 | Joback Method |
| cpg | 700.51 | J/mol×K | 825.49 | Joback Method |
| cpg | 714.68 | J/mol×K | 861.01 | Joback Method |
| cpg | 728.07 | J/mol×K | 896.54 | Joback Method |
| cpg | 740.79 | J/mol×K | 932.06 | Joback Method |
| cpg | 752.94 | J/mol×K | 967.59 | Joback Method |

# Sources

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|---|---|
| **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=U106161&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |

# Legend

| | |
|---|---|
| **cpg:** | Ideal gas heat capacity |
| **gf:** | Standard Gibbs free energy of formation |
| **hf:** | Enthalpy of formation at standard conditions |
| **hfus:** | Enthalpy of fusion 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 |
| **tf:** | Normal melting (fusion) point |
| **vc:** | Critical Volume |