

# Boldenone

**Other names:**

1-Dehydrotestosterone  
Androsta-1,4-dien-3-one, 17-hydroxy-, (17«beta»)-  
«delta»1-Testosterone  
Androsta-1,4-dien-3-one, 17«beta»-hydroxy-  
Dehydrotestosterone  
1,2-Dehydrotestosterone  
1,2-Didehydrotestosterone  
1,4-Androstadien-17«beta»-ol-3-one  
17«beta»-Hydroxyandrosta-1,4-dien-3-one  
17-«beta»-Hydroxy-17-«alpha»-1,4-androstadien-3-one  
NSC 79102  
RU 18761  
«beta»-Boldenone  
17«beta»-Androsta-1,4-dien-3-one  
17-Hydroxyandrosta-1,4-dien-3-one  
Boldenone (dehydrotestosterone)  
Boldenone (1-dehydrotestosterone)

**Inchi:**

InChI=1S/C19H26O2/c1-18-9-7-13(20)11-12(18)3-4-14-15-5-6-17(21)19(15,2)10-8-16(14)

**InchiKey:**

RSIHSRDYCUFFLA-JZJKZLICSA-N

**Formula:**

C19H26O2

**SMILES:**

CC12C=CC(=O)C=C1CCC1C2CCC2(C)C(O)CCC12

**Mol. weight [g/mol]:**

286.41

**CAS:**

846-48-0

## Physical Properties

| Property code | Value   | Unit   | Source         |
|---------------|---------|--------|----------------|
| gf            | 56.08   | kJ/mol | Joback Method  |
| hf            | -371.13 | kJ/mol | Joback Method  |
| hfus          | 22.21   | kJ/mol | Joback Method  |
| hvap          | 77.65   | kJ/mol | Joback Method  |
| log10ws       | -4.51   |        | Crippen Method |
| logp          | 3.655   |        | Crippen Method |
| mcvol         | 233.970 | ml/mol | McGowan Method |
| pc            | 2086.93 | kPa    | Joback Method  |
| rinpol        | 2764.00 |        | NIST Webbook   |
| rinpol        | 2764.00 |        | NIST Webbook   |
| tb            | 836.87  | K      | Joback Method  |

|    |         |                      |               |
|----|---------|----------------------|---------------|
| tc | 1074.97 | K                    | Joback Method |
| tf | 540.45  | K                    | Joback Method |
| vc | 0.879   | m <sup>3</sup> /kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value  | Unit    | Temperature [K] | Source        |
|---------------|--------|---------|-----------------|---------------|
| cpg           | 811.13 | J/mol×K | 836.87          | Joback Method |
| cpg           | 834.15 | J/mol×K | 876.55          | Joback Method |
| cpg           | 857.22 | J/mol×K | 916.24          | Joback Method |
| cpg           | 880.66 | J/mol×K | 955.92          | Joback Method |
| cpg           | 904.81 | J/mol×K | 995.60          | Joback Method |
| cpg           | 929.99 | J/mol×K | 1035.28         | Joback Method |
| cpg           | 956.54 | J/mol×K | 1074.97         | Joback Method |

## Sources

|                        |   |
|------------------------|---|
| <b>Joback Method:</b>  | <a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>                                     |
| <b>McGowan Method:</b> | <a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>                     |
| <b>NIST Webbook:</b>   | <a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C846480&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C846480&amp;Units=SI</a> |
| <b>Crippen Method:</b> | <a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>                                 |
| <b>Crippen Method:</b> | <a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>                         |

## Legend

|                 |   |
|-----------------|---|
| <b>cpg:</b>     | Ideal gas heat capacity                         |
| <b>gf:</b>      | Standard Gibbs free energy of formation         |
| <b>hf:</b>      | Enthalpy of formation at standard conditions    |
| <b>hfus:</b>    | Enthalpy of fusion at standard conditions       |
| <b>hvap:</b>    | Enthalpy of vaporization at standard conditions |
| <b>log10ws:</b> | Log10 of Water solubility in mol/l              |
| <b>logp:</b>    | Octanol/Water partition coefficient             |
| <b>mcvol:</b>   | McGowan's characteristic volume                 |
| <b>pc:</b>      | Critical Pressure                               |
| <b>rinpola:</b> | Non-polar retention indices                     |

**tb:** Normal Boiling Point Temperature  
**tc:** Critical Temperature  
**tf:** Normal melting (fusion) point  
**vc:** Critical Volume

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