

# 3-Hydroxyestra-1,3,5(10)-triene-16,17-dione

|                             |  |
|-----------------------------|--|
| <b>Inchi:</b>               | InChI=1S/C18H20O3/c1-18-7-6-13-12-5-3-11(19)8-10(12)2-4-14(13)15(18)9-16(20)17(18) |
| <b>InchiKey:</b>            | ANPHVANSJXDRTP-UHFFFAOYSA-N  |
| <b>Formula:</b>             | C18H20O3   |
| <b>SMILES:</b>              | CC12CCC3c4ccc(O)cc4CCC3C1CC(=O)C2=O  |
| <b>Mol. weight [g/mol]:</b> | 284.35   |
| <b>CAS:</b>                 | 1228-73-5  |

## Physical Properties

| Property code | Value   | Unit                 | Source         |
|---------------|---------|----------------------|----------------|
| gf            | -51.49  | kJ/mol               | Joback Method  |
| hf            | -441.52 | kJ/mol               | Joback Method  |
| hfus          | 25.81   | kJ/mol               | Joback Method  |
| hvap          | 78.73   | kJ/mol               | Joback Method  |
| log10ws       | -3.46   |                      | Crippen Method |
| logp          | 2.996   |                      | Crippen Method |
| mcvol         | 217.150 | ml/mol               | McGowan Method |
| pc            | 2605.74 | kPa                  | Joback Method  |
| tb            | 883.49  | K                    | Joback Method  |
| tc            | 1156.06 | K                    | Joback Method  |
| tf            | 646.16  | K                    | Joback Method  |
| vc            | 0.767   | m <sup>3</sup> /kmol | Joback Method  |

## Temperature Dependent Properties

| Property code | Value  | Unit    | Temperature [K] | Source        |
|---------------|--------|---------|-----------------|---------------|
| cpg           | 748.34 | J/mol×K | 883.49          | Joback Method |
| cpg           | 769.96 | J/mol×K | 928.92          | Joback Method |
| cpg           | 791.54 | J/mol×K | 974.35          | Joback Method |
| cpg           | 813.43 | J/mol×K | 1019.77         | Joback Method |
| cpg           | 835.98 | J/mol×K | 1065.20         | Joback Method |
| cpg           | 859.54 | J/mol×K | 1110.63         | Joback Method |
| cpg           | 884.45 | J/mol×K | 1156.06         | Joback Method |

# Sources

|                        |   |
|------------------------|---|
| <b>Crippen Method:</b> | <a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</a>                                   |
| <b>Crippen Method:</b> | <a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>                           |
| <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=C1228735&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C1228735&amp;Units=SI</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>mccvol:</b>  | McGowan's characteristic volume                 |
| <b>pc:</b>      | Critical Pressure                               |
| <b>tb:</b>      | Normal Boiling Point Temperature                |
| <b>tc:</b>      | Critical Temperature                            |
| <b>tf:</b>      | Normal melting (fusion) point                   |
| <b>vc:</b>      | Critical Volume                                 |

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