

# 5«beta»-Pregn-7-ene-3«alpha»-ol-20-one

|                             |   |
|-----------------------------|---|
| <b>Inchi:</b>               | InChI=1S/C21H32O2/c1-13(22)17-6-7-18-16-5-4-14-12-15(23)8-10-20(14,2)19(16)9-11-2 |
| <b>InchiKey:</b>            | DAQICXZASLZNAM-CZTKJMCCSA-N   |
| <b>Formula:</b>             | C21H32O2  |
| <b>SMILES:</b>              | CC(=O)C1CCC2C3=CCC4CC(O)CCC4(C)C3CCC12C   |
| <b>Mol. weight [g/mol]:</b> | 316.48  |

## Physical Properties

| Property code | Value   | Unit                 | Source         |
|---------------|---------|----------------------|----------------|
| gf            | 28.92   | kJ/mol               | Joback Method  |
| hf            | -465.41 | kJ/mol               | Joback Method  |
| hfus          | 29.32   | kJ/mol               | Joback Method  |
| hvap          | 84.00   | kJ/mol               | Joback Method  |
| log10ws       | -5.25   |                      | Crippen Method |
| logp          | 4.515   |                      | Crippen Method |
| mcvol         | 266.450 | ml/mol               | McGowan Method |
| pc            | 1704.71 | kPa                  | Joback Method  |
| rinsol        | 2735.00 |                      | NIST Webbook   |
| tb            | 864.85  | K                    | Joback Method  |
| tc            | 1091.42 | K                    | Joback Method  |
| tf            | 539.70  | K                    | Joback Method  |
| vc            | 1.004   | m <sup>3</sup> /kmol | Joback Method  |

## Temperature Dependent Properties

| Property code | Value   | Unit    | Temperature [K] | Source        |
|---------------|---------|---------|-----------------|---------------|
| cpg           | 949.54  | J/mol×K | 864.85          | Joback Method |
| cpg           | 974.02  | J/mol×K | 902.61          | Joback Method |
| cpg           | 998.64  | J/mol×K | 940.37          | Joback Method |
| cpg           | 1023.72 | J/mol×K | 978.14          | Joback Method |
| cpg           | 1049.57 | J/mol×K | 1015.90         | Joback Method |
| cpg           | 1076.50 | J/mol×K | 1053.66         | Joback Method |
| cpg           | 1104.85 | J/mol×K | 1091.42         | Joback Method |

# Sources

|                        |   |
|------------------------|---|
| <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=R304046&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R304046&amp;Units=SI</a> |
| <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>                                 |

# 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>hvac:</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>mccol:</b>   | McGowan's characteristic volume                 |
| <b>pc:</b>      | Critical Pressure                               |
| <b>rinpol:</b>  | Non-polar retention indices                     |
| <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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