

**InchiKey:**

KOMLRGSNUAXTDU-XJFKSCPRSA-N

C27H30F14O4

CC12CCC(OC(=O)C(F)(F)C(F)(F)C(F)(F)F)CC1CCC1C2CCC2(C)C(OC(=O)C(F)(F)C(F)(F)F)C(F)(F)C(F)(F)F

684.50

| Property code | Value    | Unit    | Source         |
|---------------|----------|---------|----------------|
| gf            | -2861.00 | kJ/mol  | Joback Method  |
| hf            | -3678.73 | kJ/mol  | Joback Method  |
| hfus          | 43.62    | kJ/mol  | Joback Method  |
| hvap          | 71.77    | kJ/mol  | Joback Method  |
| log10ws       | -9.78    |         | Crippen Method |
| logp          | 8.519    |         | Crippen Method |
| mcvol         | 387.510  | ml/mol  | McGowan Method |
| pc            | 758.49   | kPa     | Joback Method  |
| rinpol        | 2239.00  |         | NIST Webbook   |
| rinpol        | 2238.00  |         | NIST Webbook   |
| rinpol        | 2239.00  |         | NIST Webbook   |
| tb            | 970.25   | K       | Joback Method  |
| tc            | 1188.59  | K       | Joback Method  |
| tf            | 646.15   | K       | Joback Method  |
| vc            | 1.562    | m3/kmol | Joback Method  |

| Property code | Value   | Unit    | Temperature [K] | Source        |
|---------------|---------|---------|-----------------|---------------|
| cpg           | 1482.73 | J/mol×K | 970.25          | Joback Method |
| cpg           | 1509.14 | J/mol×K | 1006.64         | Joback Method |
| cpg           | 1536.50 | J/mol×K | 1043.03         | Joback Method |
| cpg           | 1565.23 | J/mol×K | 1079.42         | Joback Method |
| cpg           | 1595.73 | J/mol×K | 1115.81         | Joback Method |
| cpg           | 1628.42 | J/mol×K | 1152.20         | Joback Method |
| cpg           | 1663.70 | J/mol×K | 1188.59         | Joback Method |

# Sources

|                        |                                                                                                                                           |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| <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>                         |
| <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=R385045&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R385045&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>mcvol:</b>   | McGowan's characteristic volume                 |
| <b>pc:</b>      | Critical Pressure                               |
| <b>rinpola:</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                                 |

Latest version available from:

<https://www.chemeo.com/cid/43-422-5/5-beta-Androstan-3-alpha-17-alpha-diol-HFB.pdf>

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