

Androsterone acetate

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|-----------------------------|---|
| Other names: | 5«alpha»-Androstan-3«alpha»-ol-17-one, acetate(ester) |
| Inchi: | InChI=1S/C21H32O3/c1-13(22)24-15-8-10-20(2)14(12-15)4-5-16-17-6-7-19(23)21(17,3)1 |
| InchiKey: | FDCINQSOYQUNKB-YDGOCFDWSA-N |
| Formula: | C21H32O3 |
| SMILES: | CC(=O)OC1CCC2(C)C(CCC3C4CCC(=O)C4(C)CCC32)C1 |
| Mol. weight [g/mol]: | 332.48 |
| CAS: | 1482-78-6 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|---------|----------------|
| gf | -82.18 | kJ/mol | Joback Method |
| hf | -629.41 | kJ/mol | Joback Method |
| hfus | 25.10 | kJ/mol | Joback Method |
| hvap | 73.03 | kJ/mol | Joback Method |
| log10ws | -5.00 | | Crippen Method |
| logp | 4.530 | | Crippen Method |
| mcvol | 272.320 | ml/mol | McGowan Method |
| pc | 1578.46 | kPa | Joback Method |
| rinpol | 2580.00 | | NIST Webbook |
| tb | 858.77 | K | Joback Method |
| tc | 1104.16 | K | Joback Method |
| tf | 556.05 | K | Joback Method |
| vc | 1.024 | m3/kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|---------|---------|-----------------|---------------|
| cpg | 977.38 | J/molxK | 858.77 | Joback Method |
| cpg | 1004.86 | J/molxK | 899.67 | Joback Method |
| cpg | 1032.08 | J/molxK | 940.57 | Joback Method |
| cpg | 1059.38 | J/molxK | 981.46 | Joback Method |
| cpg | 1087.10 | J/molxK | 1022.36 | Joback Method |
| cpg | 1115.57 | J/molxK | 1063.26 | Joback Method |
| cpg | 1145.13 | J/molxK | 1104.16 | Joback Method |

Sources

| | |
|------------------------|---|
| 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=C1482786&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci990307I |

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 |
| hvp: | 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 |
| rinp: | Non-polar retention indices |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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