

Pregn-4-en-3-one, 20-hydroxy-, (20R)-

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|-----------------------------|--|
| Other names: | Pregn-4-en-3-one, 20«beta»-hydroxy-Progesterol-20«beta» 20«beta»-Dihydroprogesterone 20«beta»-Hydroxydihydroprogesterone 20«beta»-Hydroxyprogesterone 20«beta»-Progerol 20-«beta»-Hydroxypregn-4-en-3-one 4-Pregnen-20«beta»-ol-3-one 20-Hydroxypregn-4-en-3-one, (20«beta»)-(20R)-20-hydroxypregn-4-en-3-one |
| Inchi: | 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 |
| InchiKey: | RWBRUCCWZPSBFC-WWRIRWJESA-N |
| Formula: | C21H32O2 |
| SMILES: | CC(O)C1CCC2C3CCC4=CC(=O)CCC4(C)C3CCC12C |
| Mol. weight [g/mol]: | 316.48 |
| CAS: | 145-15-3 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|---------|----------------|
| gf | 40.52 | kJ/mol | Joback Method |
| hf | -475.47 | kJ/mol | Joback Method |
| hfus | 22.64 | kJ/mol | Joback Method |
| hvap | 81.42 | kJ/mol | Joback Method |
| log10ws | -5.25 | | Crippen Method |
| logp | 4.515 | | Crippen Method |
| mcvol | 266.450 | ml/mol | McGowan Method |
| pc | 1723.16 | kPa | Joback Method |
| tb | 883.03 | K | Joback Method |
| tc | 1116.78 | K | Joback Method |
| tf | 547.23 | K | Joback Method |
| vc | 1.000 | m3/kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|---------|---------|-----------------|---------------|
| cpg | 964.98 | J/mol×K | 883.03 | Joback Method |
| cpg | 990.52 | J/mol×K | 921.99 | Joback Method |
| cpg | 1016.25 | J/mol×K | 960.95 | Joback Method |
| cpg | 1042.50 | J/mol×K | 999.91 | Joback Method |
| cpg | 1069.57 | J/mol×K | 1038.86 | Joback Method |
| cpg | 1097.78 | J/mol×K | 1077.82 | Joback Method |
| cpg | 1127.47 | J/mol×K | 1116.78 | Joback Method |

Sources

| | |
|------------------------|---|
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci9903071 |
| 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=C145153&Units=SI |

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 |
| hvap: | Enthalpy of vaporization at standard conditions |
| log10ws: | Log10 of Water solubility in mol/l |
| logp: | Octanol/Water partition coefficient |
| mccvol: | McGowan's characteristic volume |
| pc: | Critical Pressure |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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