

24-Ethyl-5-«alpha»-cholest-14,22-dien-3-«beta»-ol

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|-----------------------------|---|
| Inchi: | InChI=1S/C29H48O/c1-7-21(19(2)3)9-8-20(4)25-12-13-26-24-11-10-22-18-23(30)14-16-2 |
| InchiKey: | QALFHONQGOBQAA-AFHZOUOASA-N |
| Formula: | C29H48O |
| SMILES: | CCC(C=CC(C)C1CC=C2C3CCC4CC(O)CCC4(C)C3CCC21C)C(C)C |
| Mol. weight [g/mol]: | 412.69 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|---------|----------------|
| gf | 298.10 | kJ/mol | Joback Method |
| hf | -416.57 | kJ/mol | Joback Method |
| hfus | 38.08 | kJ/mol | Joback Method |
| hvap | 93.86 | kJ/mol | Joback Method |
| log10ws | -8.45 | | Crippen Method |
| logp | 7.801 | | Crippen Method |
| mcvol | 373.300 | ml/mol | McGowan Method |
| pc | 990.75 | kPa | Joback Method |
| rinpol | 3255.00 | | NIST Webbook |
| tb | 996.86 | K | Joback Method |
| tc | 1225.48 | K | Joback Method |
| tf | 529.85 | K | Joback Method |
| vc | 1.407 | m3/kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|---------|---------|-----------------|---------------|
| cpg | 1430.59 | J/molxK | 996.86 | Joback Method |
| cpg | 1463.99 | J/molxK | 1034.96 | Joback Method |
| cpg | 1498.43 | J/molxK | 1073.07 | Joback Method |
| cpg | 1534.27 | J/molxK | 1111.17 | Joback Method |
| cpg | 1571.91 | J/molxK | 1149.28 | Joback Method |
| cpg | 1611.70 | J/molxK | 1187.38 | Joback Method |
| cpg | 1654.02 | J/molxK | 1225.48 | Joback Method |

Sources

| | |
|------------------------|---|
| 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=R214547&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| Crippen Method: | https://www.chemeo.com/doc/models/crippen_log10ws |

Legend

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|-----------------|---|
| 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 |
| mcvol: | McGowan's characteristic volume |
| pc: | Critical Pressure |
| rinpola: | Non-polar retention indices |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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