

Methyl 5-«beta»-cholan-3-«alpha»,7-«alpha»-diol-12-one-

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|----------------------|-----------------------------------------------------------------------------------|
| Inchi: | InChI=1S/C25H40O5/c1-14(5-8-22(29)30-4)17-6-7-18-23-19(13-21(28)25(17,18)3)24(2)1 |
| InchiKey: | LGWDBNNCYKKGKFM-ZGPVKVJISA-N |
| Formula: | C25H40O5 |
| SMILES: | COC(=O)CCC(C)C1CCC2C3C(O)CC4CC(O)CCC4(C)C3CC(=O)C12C |
| Mol. weight [g/mol]: | 420.58 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|----------|----------------------|----------------|
| gf | -340.00 | kJ/mol | Joback Method |
| hf | -1062.39 | kJ/mol | Joback Method |
| hfus | 42.26 | kJ/mol | Joback Method |
| hvap | 114.28 | kJ/mol | Joback Method |
| log10ws | -4.83 | | Crippen Method |
| logp | 3.745 | | Crippen Method |
| mcvol | 340.420 | ml/mol | McGowan Method |
| pc | 1298.60 | kPa | Joback Method |
| rinpol | 3402.00 | | NIST Webbook |
| rinpol | 3402.00 | | NIST Webbook |
| tb | 1124.87 | K | Joback Method |
| tc | 1378.07 | K | Joback Method |
| tf | 699.29 | K | Joback Method |
| vc | 1.278 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|---------|---------|-----------------|---------------|
| cpg | 1427.29 | J/mol×K | 1124.87 | Joback Method |
| cpg | 1462.29 | J/mol×K | 1167.07 | Joback Method |
| cpg | 1498.88 | J/mol×K | 1209.27 | Joback Method |
| cpg | 1537.43 | J/mol×K | 1251.47 | Joback Method |
| cpg | 1578.33 | J/mol×K | 1293.67 | Joback Method |
| cpg | 1621.94 | J/mol×K | 1335.87 | Joback Method |
| cpg | 1668.65 | J/mol×K | 1378.07 | 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=R215897&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| Crippen Method: | https://www.cheméo.com/doc/models/crippen_log10ws |

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 |
| 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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