

5«alpha»-Cholanic acid, methyl ester

| | |
|-----------------------------|---|
| Inchi: | InChI=1S/C25H42O2/c1-17(8-13-23(26)27-4)20-11-12-21-19-10-9-18-7-5-6-15-24(18,2)2 |
| InchiKey: | YHTRVWPOAJKWV-WMBUEMCFSA-N |
| Formula: | C25H42O2 |
| SMILES: | COC(=O)CCC(C)C1CCC2C3CCC4CCCCC4(C)C3CCC12C |
| Mol. weight [g/mol]: | 374.60 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | 71.65 | kJ/mol | Joback Method |
| hf | -579.55 | kJ/mol | Joback Method |
| hfus | 32.43 | kJ/mol | Joback Method |
| hvap | 77.30 | kJ/mol | Joback Method |
| log10ws | -6.80 | | Crippen Method |
| logp | 6.625 | | Crippen Method |
| mcvol | 327.110 | ml/mol | McGowan Method |
| pc | 1166.43 | kPa | Joback Method |
| rinpol | 2941.00 | | NIST Webbook |
| tb | 882.03 | K | Joback Method |
| tc | 1109.48 | K | Joback Method |
| tf | 517.91 | K | Joback Method |
| vc | 1.234 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|---------|---------|-----------------|---------------|
| cpg | 1188.40 | J/mol×K | 882.03 | Joback Method |
| cpg | 1217.75 | J/mol×K | 919.94 | Joback Method |
| cpg | 1246.95 | J/mol×K | 957.85 | Joback Method |
| cpg | 1276.33 | J/mol×K | 995.76 | Joback Method |
| cpg | 1306.21 | J/mol×K | 1033.67 | Joback Method |
| cpg | 1336.90 | J/mol×K | 1071.58 | Joback Method |
| cpg | 1368.73 | J/mol×K | 1109.48 | Joback Method |

Sources

| | |
|------------------------|---|
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| 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=R535423&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 |
| h vap: | Enthalpy of vaporization at standard conditions |
| log10ws: | Log10 of Water solubility in mol/l |
| logp: | Octanol/Water partition coefficient |
| m cvol: | McGowan's characteristic volume |
| pc: | Critical Pressure |
| r inpol: | Non-polar retention indices |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

Latest version available from:

<https://www.chemeo.com/cid/11-249-3/5-alpha-Cholanic-acid-methyl-ester.pdf>

Generated by Cheméo on 2024-04-28 20:55:19.515354096 +0000 UTC m=+16626968.435931421.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.