

koprostan-3-one

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|-----------------------------|---|
| Inchi: | InChI=1S/C27H46O/c1-18(2)7-6-8-19(3)23-11-12-24-22-10-9-20-17-21(28)13-15-26(20,4 |
| InchiKey: | PESKGJQREUXSRR-WSDUGZDCSA-N |
| Formula: | C27H46O |
| SMILES: | CC(C)CCCC(C)C1CCC2C3CCC4CC(=O)CCC4(C)C3CCC12C |
| Mol. weight [g/mol]: | 386.65 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|---------|----------------|
| gf | 197.38 | kJ/mol | Joback Method |
| hf | -519.01 | kJ/mol | Joback Method |
| hfus | 30.81 | kJ/mol | Joback Method |
| hvap | 76.45 | kJ/mol | Joback Method |
| log10ws | -7.81 | | Crippen Method |
| logp | 7.677 | | Crippen Method |
| mcvol | 349.420 | ml/mol | McGowan Method |
| pc | 1025.31 | kPa | Joback Method |
| rinpol | 3073.00 | | NIST Webbook |
| rinpol | 3073.00 | | NIST Webbook |
| rinpol | 498.40 | | NIST Webbook |
| rinpol | 498.40 | | NIST Webbook |
| tb | 918.88 | K | Joback Method |
| tc | 1150.52 | K | Joback Method |
| tf | 521.51 | K | Joback Method |
| vc | 1.323 | m3/kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|---------|---------|-----------------|---------------|
| cpg | 1308.06 | J/molxK | 918.88 | Joback Method |
| cpg | 1339.92 | J/molxK | 957.49 | Joback Method |
| cpg | 1371.74 | J/molxK | 996.09 | Joback Method |
| cpg | 1403.86 | J/molxK | 1034.70 | Joback Method |
| cpg | 1436.61 | J/molxK | 1073.31 | Joback Method |
| cpg | 1470.31 | J/molxK | 1111.92 | 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=R323998&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci9903071 |
| 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 |
| rinpol: | Non-polar retention indices |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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