

Tigogenin

Other names:

Spirostan-3-ol, (3«beta»,5«alpha»,25R)-
5«alpha»-Spirostan-3«beta»-ol, (25R)-
(25R)-5«alpha»-Spirostan-3«beta»-ol
Spiro[8H-naphth[2',1':4,5]indeno[2,1-b]furan-8,2'-[2H]pyran], spirostan-3-ol deriv.
(5«alpha»,25R)-spirostan-3«beta»-ol

Inchi: InChI=1S/C27H44O3/c1-16-7-12-27(29-15-16)17(2)24-23(30-27)14-22-20-6-5-18-13-19(**InchiKey:** GMBQZIIUCVWOCD-PODJHBEMSA-N**Formula:** C27H44O3**SMILES:** CC1CCC2(OC1)OC1CC3C4CCC5CC(O)CCC5(C)C4CCC3(C)C1C2C**Mol. weight [g/mol]:** 416.64**CAS:** 77-60-1

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------------|----------------------|----------------|
| gf | 84.47 | kJ/mol | Joback Method |
| hf | -699.48 | kJ/mol | Joback Method |
| hfus | 47.37 | kJ/mol | Joback Method |
| hvap | 96.77 | kJ/mol | Joback Method |
| log10ws | -6.59 | | Crippen Method |
| logp | 5.794 | | Crippen Method |
| mcvol | 343.740 | ml/mol | McGowan Method |
| pc | 1236.35 | kPa | Joback Method |
| rinpol | 3260.00 | | NIST Webbook |
| rinpol | 3232.00 | | NIST Webbook |
| tb | 1006.27 | K | Joback Method |
| tc | 1247.23 | K | Joback Method |
| tf | 477.90 ± 5.00 | K | NIST Webbook |
| vc | 1.282 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|---------|---------|-----------------|---------------|
| cpg | 1428.95 | J/mol×K | 1006.27 | Joback Method |
| cpg | 1469.35 | J/mol×K | 1046.43 | Joback Method |

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|-----|---------|---------|---------|---------------|
| cpg | 1512.10 | J/mol×K | 1086.59 | Joback Method |
| cpg | 1557.75 | J/mol×K | 1126.75 | Joback Method |
| cpg | 1606.85 | J/mol×K | 1166.91 | Joback Method |
| cpg | 1659.94 | J/mol×K | 1207.07 | Joback Method |
| cpg | 1717.59 | J/mol×K | 1247.23 | Joback Method |

Sources

| | |
|------------------------|---|
| 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=C77601&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci9903071 |

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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