

3-hydroxy-5,6-epoxy-«beta»-ionol

| | |
|-----------------------------|---|
| Inchi: | InChI=1S/C13H22O3/c1-9(14)5-6-13-11(2,3)7-10(15)8-12(13,4)16-13/h5-6,9-10,14-15H, |
| InchiKey: | BVNCCXWAZAZQNM-AATRIKPKSA-N |
| Formula: | C13H22O3 |
| SMILES: | CC(O)C=CC12OC1(C)CC(O)CC2(C)C |
| Mol. weight [g/mol]: | 226.31 |
| CAS: | 172705-14-5 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | -145.89 | kJ/mol | Joback Method |
| hf | -491.69 | kJ/mol | Joback Method |
| hfus | 19.68 | kJ/mol | Joback Method |
| hvap | 77.90 | kJ/mol | Joback Method |
| log10ws | -2.73 | | Crippen Method |
| logp | 1.632 | | Crippen Method |
| mcvol | 185.620 | ml/mol | McGowan Method |
| pc | 2838.39 | kPa | Joback Method |
| ripol | 1685.00 | | NIST Webbook |
| ripol | 1723.00 | | NIST Webbook |
| ripol | 1723.00 | | NIST Webbook |
| ripol | 2776.00 | | NIST Webbook |
| ripol | 2768.00 | | NIST Webbook |
| ripol | 2776.00 | | NIST Webbook |
| ripol | 2776.00 | | NIST Webbook |
| ripol | 2776.00 | | NIST Webbook |
| ripol | 2767.00 | | NIST Webbook |
| tb | 721.00 | K | Joback Method |
| tc | 919.63 | K | Joback Method |
| tf | 459.98 | K | Joback Method |
| vc | 0.695 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-------|------|-----------------|--------|
|---------------|-------|------|-----------------|--------|

| | | | | |
|-----|--------|---------|--------|---------------|
| cpg | 571.95 | J/mol×K | 721.00 | Joback Method |
| cpg | 586.37 | J/mol×K | 754.11 | Joback Method |
| cpg | 600.86 | J/mol×K | 787.21 | Joback Method |
| cpg | 615.69 | J/mol×K | 820.32 | Joback Method |
| cpg | 631.11 | J/mol×K | 853.42 | Joback Method |
| cpg | 647.40 | J/mol×K | 886.53 | Joback Method |
| cpg | 664.82 | J/mol×K | 919.63 | 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=C172705145&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 |
| rinpol: | Non-polar retention indices |
| ripol: | 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/60-516-2/3-hydroxy-5-6-epoxy-beta-ionol.pdf>

Generated by Cheméo on 2024-04-26 03:15:35.175969824 +0000 UTC m=+16390584.096547136.

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