

Riesling acetal

Inchi: InChI=1S/C12H18O2/c1-10(2)6-4-7-11(3)12(10)8-5-9(13-11)14-12/h4,7,9H,5-6,8H2,1-3H
InchiKey: DFJRLXSMMWWPFG-UHFFFAOYSA-N
Formula: C12H18O2
SMILES: CC1(C)CC=CC2(C)OC3CCC12O3
Mol. weight [g/mol]: 194.27

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|---------|----------------|
| gf | 41.75 | kJ/mol | Joback Method |
| hf | -265.77 | kJ/mol | Joback Method |
| hfus | 16.40 | kJ/mol | Joback Method |
| hvap | 47.94 | kJ/mol | Joback Method |
| log10ws | -3.15 | | Crippen Method |
| logp | 2.637 | | Crippen Method |
| mcvol | 154.800 | ml/mol | McGowan Method |
| pc | 3052.41 | kPa | Joback Method |
| ripol | 1637.00 | | NIST Webbook |
| ripol | 1637.00 | | NIST Webbook |
| ripol | 1637.00 | | NIST Webbook |
| ripol | 1612.00 | | NIST Webbook |
| ripol | 1637.00 | | NIST Webbook |
| ripol | 1625.00 | | NIST Webbook |
| ripol | 1612.00 | | NIST Webbook |
| ripol | 1656.00 | | NIST Webbook |
| tb | 551.83 | K | Joback Method |
| tc | 794.31 | K | Joback Method |
| tf | 393.14 | K | Joback Method |
| vc | 0.584 | m3/kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 417.84 | J/molxK | 551.83 | Joback Method |
| cpg | 437.14 | J/molxK | 592.24 | Joback Method |

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|-----|--------|---------|--------|---------------|
| cpg | 454.71 | J/mol×K | 632.66 | Joback Method |
| cpg | 471.05 | J/mol×K | 673.07 | Joback Method |
| cpg | 486.63 | J/mol×K | 713.49 | Joback Method |
| cpg | 501.95 | J/mol×K | 753.90 | Joback Method |
| cpg | 517.48 | J/mol×K | 794.31 | Joback Method |

Sources

| | |
|------------------------|---|
| McGowan Method: | http://link.springer.com/article/10.1007/BF02311772 |
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=R302728&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci9903071 |
| Crippen Method: | https://www.chemeo.com/doc/models/crippen_log10ws |
| Joback Method: | https://en.wikipedia.org/wiki/Joback_method |

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 |
| mcvol: | McGowan's characteristic volume |
| pc: | Critical Pressure |
| ripol: | Polar retention indices |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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