

# Riesling acetal

Inchi:

InchiKey:

Formula:

SMILES:

Mol. weight [g/mol]:

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

DFJRLXSMMWWPFG-UHFFFAOYSA-N

C12H18O2

CC1(C)CC=CC2(C)OC3CCC12O3

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         | 1656.00 |         | NIST Webbook   |
| ripol         | 1612.00 |         | NIST Webbook   |
| ripol         | 1637.00 |         | NIST Webbook   |
| ripol         | 1612.00 |         | NIST Webbook   |
| ripol         | 1637.00 |         | NIST Webbook   |
| ripol         | 1625.00 |         | NIST Webbook   |
| ripol         | 1637.00 |         | 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/mol×K | 551.83          | Joback Method |
| cpg           | 437.14 | J/mol×K | 592.24          | Joback Method |

|     |        |         |        |               |
|-----|--------|---------|--------|---------------|
| 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

|                        |                                                                                                                                           |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Joback Method:</b>  | <a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>                                     |
| <b>McGowan Method:</b> | <a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>                     |
| <b>NIST Webbook:</b>   | <a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R302728&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R302728&amp;Units=SI</a> |
| <b>Crippen Method:</b> | <a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>                                 |
| <b>Crippen Method:</b> | <a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>                         |

## Legend

|                 |                                                 |
|-----------------|-------------------------------------------------|
| <b>cpg:</b>     | Ideal gas heat capacity                         |
| <b>gf:</b>      | Standard Gibbs free energy of formation         |
| <b>hf:</b>      | Enthalpy of formation at standard conditions    |
| <b>hfus:</b>    | Enthalpy of fusion at standard conditions       |
| <b>hvap:</b>    | Enthalpy of vaporization at standard conditions |
| <b>log10ws:</b> | Log10 of Water solubility in mol/l              |
| <b>logp:</b>    | Octanol/Water partition coefficient             |
| <b>mcvol:</b>   | McGowan's characteristic volume                 |
| <b>pc:</b>      | Critical Pressure                               |
| <b>ripol:</b>   | Polar retention indices                         |
| <b>tb:</b>      | Normal Boiling Point Temperature                |
| <b>tc:</b>      | Critical Temperature                            |
| <b>tf:</b>      | Normal melting (fusion) point                   |
| <b>vc:</b>      | Critical Volume                                 |

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