

# «DELTA»2-menthene oxide

|                      |                                                                  |
|----------------------|------------------------------------------------------------------|
| Inchi:               | InChI=1S/C10H18O/c1-6(2)8-5-4-7(3)9-10(8)11-9/h6-10H,4-5H2,1-3H3 |
| InchiKey:            | DVDWHWVOVXBYPFH-UHFFFAOYSA-N                                     |
| Formula:             | C10H18O                                                          |
| SMILES:              | CC(C)C1CCC(C)C2OC12                                              |
| Mol. weight [g/mol]: | 154.25                                                           |

## Physical Properties

| Property code | Value   | Unit    | Source         |
|---------------|---------|---------|----------------|
| gf            | 38.74   | kJ/mol  | Joback Method  |
| hf            | -288.25 | kJ/mol  | Joback Method  |
| hfus          | 22.42   | kJ/mol  | Joback Method  |
| hvap          | 41.36   | kJ/mol  | Joback Method  |
| log10ws       | -2.38   |         | Crippen Method |
| logp          | 2.456   |         | Crippen Method |
| mcvol         | 135.910 | ml/mol  | McGowan Method |
| pc            | 2603.08 | kPa     | Joback Method  |
| rinpol        | 1134.00 |         | NIST Webbook   |
| rinpol        | 1143.00 |         | NIST Webbook   |
| ripol         | 1412.00 |         | NIST Webbook   |
| ripol         | 1393.00 |         | NIST Webbook   |
| ripol         | 1393.00 |         | NIST Webbook   |
| tb            | 463.12  | K       | Joback Method  |
| tc            | 663.84  | K       | Joback Method  |
| tf            | 237.91  | K       | Joback Method  |
| vc            | 0.514   | m3/kmol | Joback Method  |

## Temperature Dependent Properties

| Property code | Value  | Unit    | Temperature [K] | Source        |
|---------------|--------|---------|-----------------|---------------|
| cpg           | 320.51 | J/mol×K | 463.12          | Joback Method |
| cpg           | 407.45 | J/mol×K | 630.38          | Joback Method |
| cpg           | 392.01 | J/mol×K | 596.93          | Joback Method |
| cpg           | 375.65 | J/mol×K | 563.48          | Joback Method |
| cpg           | 358.31 | J/mol×K | 530.03          | Joback Method |

|       |           |         |        |               |
|-------|-----------|---------|--------|---------------|
| cpg   | 339.95    | J/mol×K | 496.57 | Joback Method |
| cpg   | 422.00    | J/mol×K | 663.84 | Joback Method |
| dvisc | 0.0007173 | Pa×s    | 463.12 | Joback Method |
| dvisc | 0.0007456 | Pa×s    | 425.59 | Joback Method |
| dvisc | 0.0007808 | Pa×s    | 388.05 | Joback Method |
| dvisc | 0.0008258 | Pa×s    | 350.51 | Joback Method |
| dvisc | 0.0008852 | Pa×s    | 312.98 | Joback Method |
| dvisc | 0.0009670 | Pa×s    | 275.45 | Joback Method |
| dvisc | 0.0010863 | Pa×s    | 237.91 | Joback Method |

## Sources

|                        |                                                                                                                                           |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Crippen Method:</b> | <a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>                         |
| <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=R339245&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R339245&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>                                 |

## Legend

|                 |                                                 |
|-----------------|-------------------------------------------------|
| <b>cpg:</b>     | Ideal gas heat capacity                         |
| <b>dvisc:</b>   | Dynamic viscosity                               |
| <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>rinpol:</b>  | Non-polar retention indices                     |
| <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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