

# 2-Monobenzoylglycerol

|                      |                                                                           |
|----------------------|---------------------------------------------------------------------------|
| Inchi:               | InChI=1S/C10H12O4/c11-6-9(7-12)14-10(13)8-4-2-1-3-5-8/h1-5,9,11-12H,6-7H2 |
| InchiKey:            | XNUZWIXOUNSBLL-UHFFFAOYSA-N                                               |
| Formula:             | C10H12O4                                                                  |
| SMILES:              | O=C(OC(CO)CO)c1ccccc1                                                     |
| Mol. weight [g/mol]: | 196.20                                                                    |
| CAS:                 | 26699-73-0                                                                |

## Physical Properties

| Property code | Value   | Unit    | Source         |
|---------------|---------|---------|----------------|
| gf            | -364.27 | kJ/mol  | Joback Method  |
| hf            | -567.74 | kJ/mol  | Joback Method  |
| hfus          | 23.14   | kJ/mol  | Joback Method  |
| hvap          | 82.26   | kJ/mol  | Joback Method  |
| log10ws       | -1.19   |         | Crippen Method |
| logp          | 0.197   |         | Crippen Method |
| mcvol         | 147.180 | ml/mol  | McGowan Method |
| pc            | 3862.67 | kPa     | Joback Method  |
| tb            | 715.09  | K       | Joback Method  |
| tc            | 907.58  | K       | Joback Method  |
| tf            | 407.68  | K       | Joback Method  |
| vc            | 0.543   | m3/kmol | Joback Method  |

## Temperature Dependent Properties

| Property code | Value     | Unit    | Temperature [K] | Source        |
|---------------|-----------|---------|-----------------|---------------|
| cpg           | 398.93    | J/mol×K | 715.09          | Joback Method |
| cpg           | 446.13    | J/mol×K | 907.58          | Joback Method |
| cpg           | 439.62    | J/mol×K | 875.50          | Joback Method |
| cpg           | 432.60    | J/mol×K | 843.42          | Joback Method |
| cpg           | 425.03    | J/mol×K | 811.34          | Joback Method |
| cpg           | 416.91    | J/mol×K | 779.25          | Joback Method |
| cpg           | 408.22    | J/mol×K | 747.17          | Joback Method |
| cps           | 236.40    | J/mol×K | 298.00          | NIST Webbook  |
| dvisc         | 0.0000111 | Pa×s    | 715.09          | Joback Method |

|       |           |      |        |               |
|-------|-----------|------|--------|---------------|
| dvisc | 0.0000193 | Pa×s | 663.86 | Joback Method |
| dvisc | 0.0000369 | Pa×s | 612.62 | Joback Method |
| dvisc | 0.0000793 | Pa×s | 561.38 | Joback Method |
| dvisc | 0.0001985 | Pa×s | 510.15 | Joback Method |
| dvisc | 0.0006102 | Pa×s | 458.92 | Joback Method |
| dvisc | 0.0024871 | Pa×s | 407.68 | Joback Method |

## Sources

|                        |                                                                                                                                               |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <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>                             |
| <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=C26699730&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C26699730&amp;Units=SI</a> |

## Legend

|                 |                                                 |
|-----------------|-------------------------------------------------|
| <b>cpg:</b>     | Ideal gas heat capacity                         |
| <b>cps:</b>     | Solid phase 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>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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