

# 1-Dodecanol, 2-methyl

|                      |                                                                         |
|----------------------|-------------------------------------------------------------------------|
| Inchi:               | InChI=1S/C13H28O/c1-3-4-5-6-7-8-9-10-11-13(2)12-14/h13-14H,3-12H2,1-2H3 |
| InchiKey:            | SCHAAFQMJJWGJM-UHFFFAOYSA-N                                             |
| Formula:             | C13H28O                                                                 |
| SMILES:              | CCCCCCCCCCC(C)CO                                                        |
| Mol. weight [g/mol]: | 200.36                                                                  |
| CAS:                 | 22663-61-2                                                              |

## Physical Properties

| Property code | Value   | Unit    | Source         |
|---------------|---------|---------|----------------|
| gf            | -80.68  | kJ/mol  | Joback Method  |
| hf            | -469.16 | kJ/mol  | Joback Method  |
| hfus          | 29.99   | kJ/mol  | Joback Method  |
| hvap          | 60.82   | kJ/mol  | Joback Method  |
| log10ws       | -4.29   |         | Crippen Method |
| logp          | 4.146   |         | Crippen Method |
| mcvol         | 199.900 | ml/mol  | McGowan Method |
| pc            | 1786.37 | kPa     | Joback Method  |
| tb            | 588.58  | K       | Joback Method  |
| tc            | 748.59  | K       | Joback Method  |
| tf            | 282.09  | K       | Joback Method  |
| vc            | 0.776   | m3/kmol | Joback Method  |

## Temperature Dependent Properties

| Property code | Value     | Unit    | Temperature [K] | Source        |
|---------------|-----------|---------|-----------------|---------------|
| cpg           | 530.09    | J/mol×K | 588.58          | Joback Method |
| cpg           | 601.64    | J/mol×K | 721.92          | Joback Method |
| cpg           | 588.50    | J/mol×K | 695.25          | Joback Method |
| cpg           | 574.79    | J/mol×K | 668.59          | Joback Method |
| cpg           | 560.50    | J/mol×K | 641.92          | Joback Method |
| cpg           | 545.60    | J/mol×K | 615.25          | Joback Method |
| cpg           | 614.23    | J/mol×K | 748.59          | Joback Method |
| dvisc         | 0.0000673 | Pa×s    | 588.58          | Joback Method |
| dvisc         | 0.0001145 | Pa×s    | 537.50          | Joback Method |

|       |           |      |        |               |
|-------|-----------|------|--------|---------------|
| dvisc | 0.0002178 | Pa×s | 486.42 | Joback Method |
| dvisc | 0.0004818 | Pa×s | 435.33 | Joback Method |
| dvisc | 0.0013165 | Pa×s | 384.25 | Joback Method |
| dvisc | 0.0048963 | Pa×s | 333.17 | Joback Method |
| dvisc | 0.0293029 | Pa×s | 282.09 | 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=C22663612&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C22663612&amp;Units=SI</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>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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