

# 4-DODECYLRESORCINOL

|                      |                                                                                   |
|----------------------|-----------------------------------------------------------------------------------|
| Other names:         | 4-n-Laurylresorcinol<br>1,3-Benzenediol, 4-dodecyl-<br>4-dodecylresorcinol        |
| Inchi:               | InChI=1S/C18H30O2/c1-2-3-4-5-6-7-8-9-10-11-12-16-13-14-17(19)15-18(16)20/h13-15,1 |
| InchiKey:            | JJWVPHWHEGQZOE-UHFFFAOYSA-N                                                       |
| Formula:             | C18H30O2                                                                          |
| SMILES:              | CCCCCCCCCCCCc1ccc(O)cc1O                                                          |
| Mol. weight [g/mol]: | 278.44                                                                            |

## Physical Properties

| Property code | Value   | Unit   | Source             |
|---------------|---------|--------|--------------------|
| hfus          | 47.98   | kJ/mol | Joback Method      |
| ie            | 8.42    | eV     | Cheméo Relay (1.0) |
| log10ws       | -5.95   |        | Cheméo Relay (1.0) |
| logp          | 5.561   |        | Crippen Method     |
| mcvol         | 252.460 | ml/mol | McGowan Method     |
| tb            | 627.80  | K      | Cheméo Relay (1.0) |
| tf            | 369.55  | K      | Cheméo Relay (1.0) |

## Temperature Dependent Properties

| Property code | Value     | Unit    | Temperature [K] | Source        |
|---------------|-----------|---------|-----------------|---------------|
| cpg           | 783.38    | J/mol×K | 799.16          | Joback Method |
| cpg           | 799.97    | J/mol×K | 833.34          | Joback Method |
| cpg           | 815.95    | J/mol×K | 867.52          | Joback Method |
| cpg           | 831.44    | J/mol×K | 901.70          | Joback Method |
| cpg           | 846.55    | J/mol×K | 935.88          | Joback Method |
| cpg           | 861.39    | J/mol×K | 970.06          | Joback Method |
| cpg           | 876.10    | J/mol×K | 1004.25         | Joback Method |
| dvisc         | 0.0000288 | Pa×s    | 542.48          | Joback Method |
| dvisc         | 0.0000111 | Pa×s    | 585.26          | Joback Method |
| dvisc         | 0.0000049 | Pa×s    | 628.04          | Joback Method |
| dvisc         | 0.0000024 | Pa×s    | 670.82          | Joback Method |
| dvisc         | 0.0000013 | Pa×s    | 713.60          | Joback Method |

|       |           |      |        |               |
|-------|-----------|------|--------|---------------|
| dvisc | 0.0000007 | Pa×s | 756.38 | Joback Method |
| dvisc | 0.0000004 | Pa×s | 799.16 | Joback Method |

## Pressure Dependent Properties

| Property code | Value  | Unit | Pressure [kPa] | Source       |
|---------------|--------|------|----------------|--------------|
| tbrp          | 498.20 | K    | 0.80           | NIST Webbook |

## Sources

|                           |                                                                                                                                               |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| NIST Webbook:             | <a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C24305564&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C24305564&amp;Units=SI</a> |
| Joback Method:            | <a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>                                         |
| McGowan Method:           | <a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>                         |
| Crippen Method:           | <a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>                                     |
| Crippen Method:           | <a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>                             |
| Cheméo Relay (1.0):       |                                                                                                                                               |
| Cheméo Relay (1.0, beta): |                                                                                                                                               |

## Legend

|                 |                                           |
|-----------------|-------------------------------------------|
| <b>cpg:</b>     | Ideal gas heat capacity                   |
| <b>dvisc:</b>   | Dynamic viscosity                         |
| <b>hfus:</b>    | Enthalpy of fusion at standard conditions |
| <b>ie:</b>      | Ionization energy                         |
| <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>tb:</b>      | Normal Boiling Point Temperature          |
| <b>tbrp:</b>    | Boiling point at reduced pressure         |
| <b>tf:</b>      | Normal melting (fusion) point             |

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