

# Benzenemethanol, «alpha»,«alpha»,4-trimethyl-

Other names: p-Cymen-8-ol  
1-Methyl-4-(«alpha»-hydroxyisopropyl)benzene  
1-Methyl-4-(1-hydroxy-1-methylethyl)benzene  
2-(4-Methylphenyl)-2-propanol  
8-Hydroxy-p-cymene  
p-Cymene-8-ol  
para-Cymen-8-ol  
p-Cymen-«alpha»-ol  
p-Cymenol-8  
p-cymenol  
Cymen-8-ol  
«alpha»-4-Trimethyl-benzenemethanol  
«rho»-Cymene-8-ol  
cimen-8-ol  
Benzenemethanol,a`,a`,4-trimethyl-  
«alpha»,«alpha»,4-trimethylbenzyl alcohol

Inchi: InChI=1S/C10H14O/c1-8-4-6-9(7-5-8)10(2,3)11/h4-7,11H,1-3H3  
InchiKey: XLPDVYGDNR IQFV-UHFFFAOYSA-N  
Formula: C10H14O  
SMILES: Cc1ccc(C(C)(C)O)cc1  
Mol. weight [g/mol]: 150.22  
CAS: 1197-01-9

## Physical Properties

| Property code | Value   | Unit   | Source         |
|---------------|---------|--------|----------------|
| gf            | 2.12    | kJ/mol | Joback Method  |
| hf            | -185.65 | kJ/mol | Joback Method  |
| hfus          | 11.98   | kJ/mol | Joback Method  |
| hvap          | 56.18   | kJ/mol | Joback Method  |
| log10ws       | -2.60   |        | Crippen Method |
| logp          | 2.222   |        | Crippen Method |
| mcvol         | 133.870 | ml/mol | McGowan Method |
| pc            | 3261.58 | kPa    | Joback Method  |
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| ripol | 1864.00 | NIST Webbook |
| ripol | 1864.00 | NIST Webbook |

|       |         |              |
|-------|---------|--------------|
| ripol | 1851.00 | NIST Webbook |
| ripol | 1849.00 | NIST Webbook |
| ripol | 1865.00 | NIST Webbook |
| ripol | 1861.00 | NIST Webbook |
| ripol | 1832.00 | NIST Webbook |
| ripol | 1864.00 | NIST Webbook |
| ripol | 1865.00 | NIST Webbook |
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| ripol | 1849.00 | NIST Webbook |
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| ripol | 1841.00 | NIST Webbook |
| ripol | 1852.00 | NIST Webbook |
| ripol | 1841.00 | NIST Webbook |
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| ripol | 1864.00 | NIST Webbook |
| ripol | 1864.00 | NIST Webbook |
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| ripol | 1864.00 | NIST Webbook |
| ripol | 1864.00 | NIST Webbook |
| ripol | 1805.00 | NIST Webbook |
| ripol | 1864.00 | NIST Webbook |
| ripol | 1864.00 | NIST Webbook |
| ripol | 1864.00 | NIST Webbook |
| ripol | 1864.00 | NIST Webbook |
| ripol | 1864.00 | NIST Webbook |
| ripol | 1818.00 | NIST Webbook |
| ripol | 1846.00 | NIST Webbook |
| ripol | 1864.00 | NIST Webbook |
| ripol | 1864.00 | NIST Webbook |
| ripol | 1864.00 | NIST Webbook |

[illegible]

# Temperature Dependent Properties

| Property code | Value     | Unit    | Temperature [K] | Source        |
|---------------|-----------|---------|-----------------|---------------|
| cpg           | 314.88    | J/mol×K | 548.81          | Joback Method |
| cpg           | 372.15    | J/mol×K | 719.68          | Joback Method |
| cpg           | 362.17    | J/mol×K | 685.51          | Joback Method |
| cpg           | 351.49    | J/mol×K | 651.33          | Joback Method |
| cpg           | 340.09    | J/mol×K | 617.16          | Joback Method |
| cpg           | 327.90    | J/mol×K | 582.98          | Joback Method |
| cpg           | 381.49    | J/mol×K | 753.86          | Joback Method |
| dvisc         | 0.0000951 | Pa×s    | 548.81          | Joback Method |
| dvisc         | 0.0001516 | Pa×s    | 508.12          | Joback Method |
| dvisc         | 0.0002621 | Pa×s    | 467.42          | Joback Method |
| dvisc         | 0.0005029 | Pa×s    | 426.73          | Joback Method |
| dvisc         | 0.0011070 | Pa×s    | 386.03          | Joback Method |
| dvisc         | 0.0029353 | Pa×s    | 345.34          | Joback Method |
| dvisc         | 0.0100992 | Pa×s    | 304.64          | Joback Method |

## Sources

|                 |                                                                                                                                             |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| McGowan Method: | <a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>                       |
| NIST Webbook:   | <a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C1197019&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C1197019&amp;Units=SI</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>                           |
| Joback Method:  | <a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</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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