# 2-Methyl-6-(p-tolyl)hept-2-en-4-ol

**Other names:** Benzenepropanol,«gamma»,4-dimethyl-«alpha»-(2-methyl-1-propen-1-yl)-
ar-Turmerol
ar-Tumerol
Turmerol (-ar)

**Inchi:** InChI=1S/C15H22O/c1-11(2)9-15(16)10-13(4)14-7-5-12(3)6-8-14/h5-9,13,15-16H,10H2,1

**InchiKey:** NRBFEAZFHRHFFQ-UHFFFAOYSA-N

**Formula:** C15H22O

**SMILES:** CC(C)=CC(O)CC(C)c1ccc(C)cc1

**Mol. weight [g/mol]:** 218.33

**CAS:** 38142-57-3

# Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 108.17 | kJ/mol | Joback Method |
| hf | -183.23 | kJ/mol | Joback Method |
| hfus | 24.19 | kJ/mol | Joback Method |
| hvap | 67.86 | kJ/mol | Joback Method |
| log10ws | -4.45 | | Crippen Method |
| logp | 3.816 | | Crippen Method |
| mcvol | 200.020 | ml/mol | McGowan Method |
| pc | 2110.00 | kPa | Joback Method |
| rinpol | 1576.00 | | NIST Webbook |
| rinpol | 1594.00 | | NIST Webbook |
| rinpol | 1583.00 | | NIST Webbook |
| rinpol | 1577.00 | | NIST Webbook |
| rinpol | 1555.00 | | NIST Webbook |
| rinpol | 1583.00 | | NIST Webbook |
| rinpol | 1559.00 | | NIST Webbook |
| rinpol | 1594.00 | | NIST Webbook |
| rinpol | 1584.00 | | NIST Webbook |
| rinpol | 1583.00 | | NIST Webbook |
| rinpol | 1576.00 | | NIST Webbook |
| rinpol | 1582.00 | | NIST Webbook |
| rinpol | 1572.00 | | NIST Webbook |
| rinpol | 1555.00 | | NIST Webbook |
| rinpol | 1568.00 | | NIST Webbook |
| rinpol | 1577.00 | | NIST Webbook |

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|---|---|---|---|
| rinpol | 1560.00 | | NIST Webbook |
| rinpol | 1583.00 | | NIST Webbook |
| rinpol | 1579.00 | | NIST Webbook |
| rinpol | 1579.00 | | NIST Webbook |
| rinpol | 1583.00 | | NIST Webbook |
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| rinpol | 1583.00 | | NIST Webbook |
| rinpol | 1578.00 | | NIST Webbook |
| rinpol | 1583.00 | | NIST Webbook |
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| ripol | 2214.00 | | NIST Webbook |
| ripol | 2214.00 | | NIST Webbook |
| ripol | 2214.00 | | NIST Webbook |
| ripol | 2214.00 | | NIST Webbook |
| ripol | 2214.00 | | NIST Webbook |
| tb | 669.60 | K | Joback Method |
| tc | 868.62 | K | Joback Method |
| tf | 309.53 | K | Joback Method |
| vc | 0.755 | m3/kmol | Joback Method |

# Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 539.39 | J/mol×K | 669.60 | Joback Method |
| cpg | 554.94 | J/mol×K | 702.77 | Joback Method |
| cpg | 569.60 | J/mol×K | 735.94 | Joback Method |
| cpg | 583.42 | J/mol×K | 769.11 | Joback Method |
| cpg | 596.45 | J/mol×K | 802.28 | Joback Method |
| cpg | 608.75 | J/mol×K | 835.45 | Joback Method |
| cpg | 620.35 | J/mol×K | 868.62 | Joback Method |

# Sources


**Crippen Method:** http://pubs.acs.org/doi/abs/10.1021/ci990307l

**Crippen Method:** https://www.chemeo.com/doc/models/crippen_log10ws

**Joback Method:** https://en.wikipedia.org/wiki/Joback_method

**McGowan Method:** http://link.springer.com/article/10.1007/BF02311772

**NIST Webbook:** http://webbook.nist.gov/cgi/cbook.cgi?ID=C38142573&Units=SI

# Legend

| | |
|---|---|
| **cpg:** | Ideal gas heat capacity |
| **gf:** | Standard Gibbs free energy of formation |
| **hf:** | Enthalpy of formation at standard conditions |
| **hfus:** | Enthalpy of fusion at standard conditions |
| **hvap:** | Enthalpy of vaporization at standard conditions |
| **log10ws:** | Log10 of Water solubility in mol/l |
| **logp:** | Octanol/Water partition coefficient |
| **mcvol:** | McGowan's characteristic volume |
| **pc:** | Critical Pressure |
| **rinpol:** | Non-polar retention indices |
| **ripol:** | Polar retention indices |
| **tb:** | Normal Boiling Point Temperature |
| **tc:** | Critical Temperature |
| **tf:** | Normal melting (fusion) point |
| **vc:** | Critical Volume |

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