

# 3,7,11,15-Tetramethyl-2-hexadecen-1-ol

|                      |                                                                                   |
|----------------------|-----------------------------------------------------------------------------------|
| Other names:         | 2-Hexadecen-1-ol, 3,7,11,15-tetramethyl                                           |
| Inchi:               | InChI=1S/C20H40O/c1-17(2)9-6-10-18(3)11-7-12-19(4)13-8-14-20(5)15-16-21/h15,17-19 |
| InchiKey:            | BOTWFXYSPPMFNR-UHFFFAOYSA-N                                                       |
| Formula:             | C20H40O                                                                           |
| SMILES:              | CC(=CCO)CCCC(C)CCCC(C)CCCC(C)C                                                    |
| Mol. weight [g/mol]: | 296.53                                                                            |
| CAS:                 | 102608-53-7                                                                       |

## Physical Properties

| Property code | Value   | Unit    | Source         |
|---------------|---------|---------|----------------|
| gf            | 45.05   | kJ/mol  | Joback Method  |
| hf            | -516.77 | kJ/mol  | Joback Method  |
| hfus          | 39.97   | kJ/mol  | Joback Method  |
| hvap          | 75.67   | kJ/mol  | Joback Method  |
| log10ws       | -6.59   |         | Crippen Method |
| logp          | 6.364   |         | Crippen Method |
| mcvol         | 294.230 | ml/mol  | McGowan Method |
| pc            | 1137.50 | kPa     | Joback Method  |
| rinpol        | 2114.00 |         | NIST Webbook   |
| rinpol        | 2116.00 |         | NIST Webbook   |
| rinpol        | 2119.33 |         | NIST Webbook   |
| rinpol        | 2119.33 |         | NIST Webbook   |
| tb            | 751.90  | K       | Joback Method  |
| tc            | 926.94  | K       | Joback Method  |
| tf            | 311.94  | K       | Joback Method  |
| vc            | 1.137   | m3/kmol | Joback Method  |

## Temperature Dependent Properties

| Property code | Value  | Unit    | Temperature [K] | Source        |
|---------------|--------|---------|-----------------|---------------|
| cpg           | 904.37 | J/mol×K | 751.90          | Joback Method |
| cpg           | 923.39 | J/mol×K | 781.07          | Joback Method |
| cpg           | 941.52 | J/mol×K | 810.25          | Joback Method |
| cpg           | 958.79 | J/mol×K | 839.42          | Joback Method |

|     |         |         |        |               |
|-----|---------|---------|--------|---------------|
| cpg | 975.26  | J/mol×K | 868.59 | Joback Method |
| cpg | 990.97  | J/mol×K | 897.76 | Joback Method |
| cpg | 1005.95 | J/mol×K | 926.94 | Joback Method |

## Sources

|                        |                                                                                                                                                 |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| <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=C102608537&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C102608537&amp;Units=SI</a> |
| <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>                                       |

## Legend

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