

# 10,20-Dimethyltetratriacontane

Inchi:

InchiKey:

Formula:

SMILES:

Mol. weight [g/mol]:

InChI=1S/C36H74/c1-5-7-9-11-13-14-15-16-17-20-24-28-32-36(4)34-30-26-22-18-21-25-

LBMMRWSBPBUHSJ-UHFFFAOYSA-N

C36H74

CCCCCCCCCCCCCCCC(C)CCCCCCCCCCCC(C)CCCCCCCCC

506.97

## Physical Properties

| Property code | Value   | Unit    | Source         |
|---------------|---------|---------|----------------|
| gf            | 247.36  | kJ/mol  | Joback Method  |
| hf            | -796.93 | kJ/mol  | Joback Method  |
| hfus          | 81.95   | kJ/mol  | Joback Method  |
| hvap          | 94.95   | kJ/mol  | Joback Method  |
| log10ws       | -14.41  |         | Crippen Method |
| logp          | 14.001  |         | Crippen Method |
| mcvol         | 518.100 | ml/mol  | McGowan Method |
| pc            | 460.89  | kPa     | Joback Method  |
| rinpol        | 3455.00 |         | NIST Webbook   |
| rinpol        | 3455.00 |         | NIST Webbook   |
| tb            | 1022.20 | K       | Joback Method  |
| tc            | 1299.46 | K       | Joback Method  |
| tf            | 465.48  | K       | Joback Method  |
| vc            | 2.039   | m3/kmol | Joback Method  |

## Temperature Dependent Properties

| Property code | Value     | Unit    | Temperature [K] | Source        |
|---------------|-----------|---------|-----------------|---------------|
| cpg           | 1895.15   | J/mol×K | 1022.20         | Joback Method |
| cpg           | 2043.21   | J/mol×K | 1253.25         | Joback Method |
| cpg           | 2017.80   | J/mol×K | 1207.04         | Joback Method |
| cpg           | 1990.53   | J/mol×K | 1160.83         | Joback Method |
| cpg           | 1961.17   | J/mol×K | 1114.62         | Joback Method |
| cpg           | 1929.46   | J/mol×K | 1068.41         | Joback Method |
| cpg           | 2067.02   | J/mol×K | 1299.46         | Joback Method |
| dvisc         | 0.0000079 | Pa×s    | 1022.20         | Joback Method |

|       |           |      |        |               |
|-------|-----------|------|--------|---------------|
| dvisc | 0.0000114 | Pa×s | 929.41 | Joback Method |
| dvisc | 0.0000179 | Pa×s | 836.63 | Joback Method |
| dvisc | 0.0000314 | Pa×s | 743.84 | Joback Method |
| dvisc | 0.0000647 | Pa×s | 651.05 | Joback Method |
| dvisc | 0.0001696 | Pa×s | 558.27 | Joback Method |
| dvisc | 0.0006531 | Pa×s | 465.48 | Joback Method |

## Sources

|                        |                                                                                                                                           |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| <b>NIST Webbook:</b>   | <a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R538813&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R538813&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>                                 |
| <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>                     |

## 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>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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