

# Tricyclo[7.3.0.0(2.6)]dodecane, isomer # 2

**Inchi:** InChI=1S/C12H20/c1-2-10-6-4-9-5-7-11(8-9)12(10)3-1/h9-12H,1-8H2  
**InchiKey:** VDOTYUCOMJCUBP-UHFFFAOYSA-N  
**Formula:** C12H20  
**SMILES:** C1CC2CCC3CCC(C3)C2C1  
**Mol. weight [g/mol]:** 164.29

## Physical Properties

| Property code | Value   | Unit    | Source         |
|---------------|---------|---------|----------------|
| gf            | 188.40  | kJ/mol  | Joback Method  |
| hf            | -111.43 | kJ/mol  | Joback Method  |
| hfus          | 16.01   | kJ/mol  | Joback Method  |
| hvap          | 42.25   | kJ/mol  | Joback Method  |
| log10ws       | -3.56   |         | Crippen Method |
| logp          | 3.613   |         | Crippen Method |
| mcvol         | 147.360 | ml/mol  | McGowan Method |
| pc            | 2662.52 | kPa     | Joback Method  |
| ripol         | 1452.00 |         | NIST Webbook   |
| ripol         | 1452.00 |         | NIST Webbook   |
| ripol         | 1480.00 |         | NIST Webbook   |
| tb            | 502.32  | K       | Joback Method  |
| tc            | 726.21  | K       | Joback Method  |
| tf            | 264.02  | K       | Joback Method  |
| vc            | 0.553   | m3/kmol | Joback Method  |

## Temperature Dependent Properties

| Property code | Value  | Unit    | Temperature [K] | Source        |
|---------------|--------|---------|-----------------|---------------|
| cpg           | 369.20 | J/mol×K | 502.32          | Joback Method |
| cpg           | 475.77 | J/mol×K | 688.89          | Joback Method |
| cpg           | 457.35 | J/mol×K | 651.58          | Joback Method |
| cpg           | 437.59 | J/mol×K | 614.26          | Joback Method |
| cpg           | 416.37 | J/mol×K | 576.95          | Joback Method |
| cpg           | 393.61 | J/mol×K | 539.63          | Joback Method |
| cpg           | 492.92 | J/mol×K | 726.21          | Joback Method |

|       |           |      |        |               |
|-------|-----------|------|--------|---------------|
| dvisc | 0.0009953 | Pa×s | 502.32 | Joback Method |
| dvisc | 0.0010450 | Pa×s | 462.60 | Joback Method |
| dvisc | 0.0011073 | Pa×s | 422.89 | Joback Method |
| dvisc | 0.0011875 | Pa×s | 383.17 | Joback Method |
| dvisc | 0.0012943 | Pa×s | 343.45 | Joback Method |
| dvisc | 0.0014428 | Pa×s | 303.74 | Joback Method |
| dvisc | 0.0016617 | Pa×s | 264.02 | 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=R524537&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R524537&amp;Units=SI</a> |
| <b>Crippen Method:</b> | <a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>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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