# (Z,Z,Z)-Bicyclo[10.1.0]trideca-4,8-diene

**Inchi:** InChI=1S/C13H20/c1-2-4-6-8-10-13-11-12(13)9-7-5-3-1/h3-6,12-13H,1-2,7-11H2/b5-3-,6
**InchiKey:** OKQPAVLKCLUCOF-SMYSWBCWSA-N
**Formula:** C13H20
**SMILES:** C1=CCCC2CC2CCC=CCC1
**Mol. weight [g/mol]:** 176.30

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 155.30 | kJ/mol | Joback Method |
| hf | -93.61 | kJ/mol | Joback Method |
| hfus | 13.44 | kJ/mol | Joback Method |
| hvap | 46.15 | kJ/mol | Joback Method |
| log10ws | -4.28 | | Crippen Method |
| logp | 4.089 | | Crippen Method |
| mcvol | 163.710 | ml/mol | McGowan Method |
| pc | 2605.74 | kPa | Joback Method |
| rinpol | 1391.00 | | NIST Webbook |
| rinpol | 1391.00 | | NIST Webbook |
| tb | 538.53 | K | Joback Method |
| tc | 779.84 | K | Joback Method |
| tf | 249.03 | K | Joback Method |
| vc | 0.594 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 401.16 | J/mol×K | 538.53 | Joback Method |
| cpg | 426.48 | J/mol×K | 578.75 | Joback Method |
| cpg | 450.08 | J/mol×K | 618.97 | Joback Method |
| cpg | 472.03 | J/mol×K | 659.18 | Joback Method |
| cpg | 492.38 | J/mol×K | 699.40 | Joback Method |
| cpg | 511.18 | J/mol×K | 739.62 | Joback Method |
| cpg | 528.50 | J/mol×K | 779.84 | Joback Method |
| dvisc | 0.0093345 | Pa×s | 249.03 | Joback Method |

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|---|---|---|---|---|
| dvisc | 0.0028788 | Pa×s | 297.28 | Joback Method |
| dvisc | 0.0012331 | Pa×s | 345.53 | Joback Method |
| dvisc | 0.0006502 | Pa×s | 393.78 | Joback Method |
| dvisc | 0.0003942 | Pa×s | 442.03 | Joback Method |
| dvisc | 0.0002638 | Pa×s | 490.28 | Joback Method |
| dvisc | 0.0001897 | Pa×s | 538.53 | Joback Method |

# Sources

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|---|---|
| **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=R3122&Units=SI |

# Legend

| | |
|---|---|
| **cpg:** | Ideal gas heat capacity |
| **dvisc:** | Dynamic viscosity |
| **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 |
| **tb:** | Normal Boiling Point Temperature |
| **tc:** | Critical Temperature |
| **tf:** | Normal melting (fusion) point |
| **vc:** | Critical Volume |