

# 4-ethyl-2-hexyl-5-methyl-3-thiazoline, cis

|                             |   |
|-----------------------------|---|
| <b>Inchi:</b>               | InChI=1S/C12H23NS/c1-4-6-7-8-9-12-13-11(5-2)10(3)14-12/h10,12H,4-9H2,1-3H3/t10-,1 |
| <b>InchiKey:</b>            | YNMIAYYDICMIHA-PWSUYJOCSA-N   |
| <b>Formula:</b>             | C12H23NS  |
| <b>SMILES:</b>              | CCCCCCC1N=C(CC)C(C)S1   |
| <b>Mol. weight [g/mol]:</b> | 213.38  |

## Physical Properties

| Property code | Value   | Unit    | Source         |
|---------------|---------|---------|----------------|
| gf            | 255.97  | kJ/mol  | Joback Method  |
| hf            | -88.33  | kJ/mol  | Joback Method  |
| hfus          | 31.47   | kJ/mol  | Joback Method  |
| hvap          | 55.23   | kJ/mol  | Joback Method  |
| log10ws       | -4.51   |         | Crippen Method |
| logp          | 4.269   |         | Crippen Method |
| mcvol         | 191.110 | ml/mol  | McGowan Method |
| pc            | 2053.03 | kPa     | Joback Method  |
| rinpol        | 1569.00 |         | NIST Webbook   |
| rinpol        | 1573.00 |         | NIST Webbook   |
| rinpol        | 1569.00 |         | NIST Webbook   |
| ripol         | 1905.00 |         | NIST Webbook   |
| ripol         | 1905.00 |         | NIST Webbook   |
| tb            | 590.24  | K       | Joback Method  |
| tc            | 797.96  | K       | Joback Method  |
| tf            | 399.93  | K       | Joback Method  |
| vc            | 0.729   | m3/kmol | Joback Method  |

## Temperature Dependent Properties

| Property code | Value  | Unit    | Temperature [K] | Source        |
|---------------|--------|---------|-----------------|---------------|
| cpg           | 503.26 | J/molxK | 590.24          | Joback Method |
| cpg           | 523.09 | J/molxK | 624.86          | Joback Method |
| cpg           | 541.88 | J/molxK | 659.48          | Joback Method |
| cpg           | 559.65 | J/molxK | 694.10          | Joback Method |
| cpg           | 576.42 | J/molxK | 728.72          | Joback Method |

|     |        |         |        |               |
|-----|--------|---------|--------|---------------|
| cpg | 592.19 | J/mol×K | 763.34 | Joback Method |
| cpg | 607.00 | J/mol×K | 797.96 | Joback Method |

## Sources

|                        |   |
|------------------------|---|
| <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=R497900&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R497900&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>                         |

## 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>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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