

# E-1-(3-Chloro-2-methyl-allylsulfanyl) -pentane

|                             |  |
|-----------------------------|--|
| <b>Other names:</b>         | E-1-(3-Chloro-2-methyl-allylthio) -pentane                         |
| <b>Inchi:</b>               | InChI=1S/C9H17ClS/c1-3-4-5-6-11-8-9(2)7-10/h7H,3-6,8H2,1-2H3/b9-7+ |
| <b>InchiKey:</b>            | IKTZYZGLMACANG-VQHVLOKHS-A-N                                       |
| <b>Formula:</b>             | C9H17ClS   |
| <b>SMILES:</b>              | CCCCCSCC(C)=CCl  |
| <b>Mol. weight [g/mol]:</b> | 192.75   |

## Physical Properties

| Property code | Value   | Unit                 | Source         |
|---------------|---------|----------------------|----------------|
| gf            | 117.76  | kJ/mol               | Joback Method  |
| hf            | -95.53  | kJ/mol               | Joback Method  |
| hfus          | 26.29   | kJ/mol               | Joback Method  |
| hvap          | 46.87   | kJ/mol               | Joback Method  |
| log10ws       | -3.98   |                      | Crippen Method |
| logp          | 4.052   |                      | Crippen Method |
| mcvol         | 161.960 | ml/mol               | McGowan Method |
| pc            | 2391.19 | kPa                  | Joback Method  |
| rinpol        | 1331.20 |                      | NIST Webbook   |
| rinpol        | 1331.20 |                      | NIST Webbook   |
| ripol         | 1679.40 |                      | NIST Webbook   |
| tb            | 515.57  | K                    | Joback Method  |
| tc            | 717.10  | K                    | Joback Method  |
| tf            | 236.47  | K                    | Joback Method  |
| vc            | 0.624   | m <sup>3</sup> /kmol | Joback Method  |

## Temperature Dependent Properties

| Property code | Value  | Unit    | Temperature [K] | Source        |
|---------------|--------|---------|-----------------|---------------|
| cpg           | 342.89 | J/mol×K | 515.57          | Joback Method |
| cpg           | 357.03 | J/mol×K | 549.16          | Joback Method |
| cpg           | 370.44 | J/mol×K | 582.75          | Joback Method |
| cpg           | 383.15 | J/mol×K | 616.34          | Joback Method |
| cpg           | 395.18 | J/mol×K | 649.93          | Joback Method |
| cpg           | 406.57 | J/mol×K | 683.51          | 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=R153823&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R153823&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>                                 |
| <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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