

# (E)-2-pentadecenal

Inchi:

InchiKey:

Formula:

SMILES:

Mol. weight [g/mol]:

InChI=1S/C15H28O/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16/h13-15H,2-12H2,1H3/b14

MLTULPRRIKTZBN-BUHFOSPRSA-N

C15H28O

CCCCCCCCCCCCC=CC=O

224.38

## Physical Properties

| Property code | Value   | Unit    | Source         |
|---------------|---------|---------|----------------|
| gf            | 56.12   | kJ/mol  | Joback Method  |
| hf            | -321.29 | kJ/mol  | Joback Method  |
| hfus          | 37.10   | kJ/mol  | Joback Method  |
| hvap          | 55.66   | kJ/mol  | Joback Method  |
| log10ws       | -5.24   |         | Crippen Method |
| logp          | 5.053   |         | Crippen Method |
| mcvol         | 219.480 | ml/mol  | McGowan Method |
| pc            | 1559.81 | kPa     | Joback Method  |
| rinpol        | 1751.00 |         | NIST Webbook   |
| rinpol        | 1750.00 |         | NIST Webbook   |
| tb            | 595.42  | K       | Joback Method  |
| tc            | 765.25  | K       | Joback Method  |
| tf            | 295.73  | K       | Joback Method  |
| vc            | 0.873   | m3/kmol | Joback Method  |

## Temperature Dependent Properties

| Property code | Value     | Unit    | Temperature [K] | Source        |
|---------------|-----------|---------|-----------------|---------------|
| cpg           | 570.74    | J/mol×K | 595.42          | Joback Method |
| cpg           | 587.75    | J/mol×K | 623.72          | Joback Method |
| cpg           | 604.00    | J/mol×K | 652.03          | Joback Method |
| cpg           | 619.53    | J/mol×K | 680.33          | Joback Method |
| cpg           | 634.36    | J/mol×K | 708.64          | Joback Method |
| cpg           | 648.52    | J/mol×K | 736.94          | Joback Method |
| cpg           | 662.05    | J/mol×K | 765.25          | Joback Method |
| dvisc         | 0.0040996 | Pa×s    | 295.73          | Joback Method |

|       |           |      |        |               |
|-------|-----------|------|--------|---------------|
| dvisc | 0.0016268 | Pa×s | 345.68 | Joback Method |
| dvisc | 0.0008152 | Pa×s | 395.63 | Joback Method |
| dvisc | 0.0004770 | Pa×s | 445.58 | Joback Method |
| dvisc | 0.0003109 | Pa×s | 495.52 | Joback Method |
| dvisc | 0.0002192 | Pa×s | 545.47 | Joback Method |
| dvisc | 0.0001639 | Pa×s | 595.42 | Joback Method |

## Sources

|                 |                                                                                                                                           |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| NIST Webbook:   | <a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R222345&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R222345&amp;Units=SI</a> |
| Crippen Method: | <a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>                                 |
| Crippen Method: | <a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>                         |
| Joback Method:  | <a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>                                     |
| McGowan Method: | <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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