

# Z-8-Hexadecene

|                      |                                                                                  |
|----------------------|----------------------------------------------------------------------------------|
| Other names:         | cis-8-Hexadecene<br>8-Hexadecene, (Z)                                            |
| Inchi:               | InChI=1S/C16H32/c1-3-5-7-9-11-13-15-16-14-12-10-8-6-4-2/h15-16H,3-14H2,1-2H3/b16 |
| InchiKey:            | KWEAIXVWPDMXCR-NXVVXOECSA-N                                                      |
| Formula:             | C16H32                                                                           |
| SMILES:              | CCCCCCCC=CCCCCCCC                                                                |
| Mol. weight [g/mol]: | 224.43                                                                           |

## Physical Properties

| Property code | Value   | Unit    | Source         |
|---------------|---------|---------|----------------|
| gf            | 164.06  | kJ/mol  | Joback Method  |
| hf            | -256.35 | kJ/mol  | Joback Method  |
| hfus          | 37.40   | kJ/mol  | Joback Method  |
| hvap          | 51.17   | kJ/mol  | Joback Method  |
| log10ws       | -6.37   |         | Crippen Method |
| logp          | 6.264   |         | Crippen Method |
| mcvol         | 232.000 | ml/mol  | McGowan Method |
| pc            | 1369.71 | kPa     | Joback Method  |
| rinpol        | 1567.20 |         | NIST Webbook   |
| rinpol        | 1568.10 |         | NIST Webbook   |
| rinpol        | 1564.00 |         | NIST Webbook   |
| rinpol        | 1567.20 |         | NIST Webbook   |
| rinpol        | 1564.00 |         | NIST Webbook   |
| ripol         | 1603.00 |         | NIST Webbook   |
| ripol         | 1602.60 |         | NIST Webbook   |
| tb            | 569.64  | K       | Joback Method  |
| tc            | 733.96  | K       | Joback Method  |
| tf            | 265.00  | K       | Joback Method  |
| vc            | 0.911   | m3/kmol | Joback Method  |

## Temperature Dependent Properties

| Property code | Value  | Unit    | Temperature [K] | Source        |
|---------------|--------|---------|-----------------|---------------|
| cpg           | 593.58 | J/mol×K | 569.64          | Joback Method |

|       |           |         |        |               |
|-------|-----------|---------|--------|---------------|
| cpg   | 612.46    | J/mol×K | 597.03 | Joback Method |
| cpg   | 630.57    | J/mol×K | 624.41 | Joback Method |
| cpg   | 647.91    | J/mol×K | 651.80 | Joback Method |
| cpg   | 664.52    | J/mol×K | 679.18 | Joback Method |
| cpg   | 680.43    | J/mol×K | 706.57 | Joback Method |
| cpg   | 695.67    | J/mol×K | 733.96 | Joback Method |
| dvisc | 0.0048369 | Pa×s    | 265.00 | Joback Method |
| dvisc | 0.0016294 | Pa×s    | 315.77 | Joback Method |
| dvisc | 0.0007420 | Pa×s    | 366.55 | Joback Method |
| dvisc | 0.0004092 | Pa×s    | 417.32 | Joback Method |
| dvisc | 0.0002567 | Pa×s    | 468.09 | Joback Method |
| dvisc | 0.0001765 | Pa×s    | 518.87 | Joback Method |
| dvisc | 0.0001297 | Pa×s    | 569.64 | 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=U130875&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U130875&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>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>ripol:</b>   | Polar retention indices                         |
| <b>tb:</b>      | Normal Boiling Point Temperature                |
| <b>tc:</b>      | Critical Temperature                            |

**tf:** Normal melting (fusion) point  
**vc:** Critical Volume

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