

# E-9-hexadecenyl acetate

Inchi:

InchiKey:

Formula:

SMILES:

Mol. weight [g/mol]:

InChI=1S/C18H34O2/c1-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-20-18(2)19/h8-9H,3-7,1

VAKBQCYSUVICLV-CMDGGOBGSA-N

C18H34O2

CCCCCCC=CCCCCCCCCOC(C)=O

282.46

## Physical Properties

| Property code | Value   | Unit    | Source         |
|---------------|---------|---------|----------------|
| gf            | -53.02  | kJ/mol  | Joback Method  |
| hf            | -542.43 | kJ/mol  | Joback Method  |
| hfus          | 45.36   | kJ/mol  | Joback Method  |
| hvap          | 64.78   | kJ/mol  | Joback Method  |
| log10ws       | -6.07   |         | Crippen Method |
| logp          | 5.807   |         | Crippen Method |
| mcvol         | 267.620 | ml/mol  | McGowan Method |
| pc            | 1232.88 | kPa     | Joback Method  |
| rinpol        | 1998.00 |         | NIST Webbook   |
| rinpol        | 1998.00 |         | NIST Webbook   |
| ripol         | 2317.00 |         | NIST Webbook   |
| ripol         | 2317.00 |         | NIST Webbook   |
| tb            | 691.69  | K       | Joback Method  |
| tc            | 864.16  | K       | Joback Method  |
| tf            | 359.70  | K       | Joback Method  |
| vc            | 1.048   | m3/kmol | Joback Method  |

## Temperature Dependent Properties

| Property code | Value  | Unit    | Temperature [K] | Source        |
|---------------|--------|---------|-----------------|---------------|
| cpg           | 768.00 | J/mol×K | 691.69          | Joback Method |
| cpg           | 786.32 | J/mol×K | 720.43          | Joback Method |
| cpg           | 803.81 | J/mol×K | 749.18          | Joback Method |
| cpg           | 820.48 | J/mol×K | 777.92          | Joback Method |
| cpg           | 836.37 | J/mol×K | 806.67          | Joback Method |
| cpg           | 851.50 | J/mol×K | 835.41          | Joback Method |

|       |           |         |        |               |
|-------|-----------|---------|--------|---------------|
| cpg   | 865.91    | J/mol×K | 864.16 | Joback Method |
| dvisc | 0.0018910 | Pa×s    | 359.70 | Joback Method |
| dvisc | 0.0007915 | Pa×s    | 415.03 | Joback Method |
| dvisc | 0.0004066 | Pa×s    | 470.36 | Joback Method |
| dvisc | 0.0002403 | Pa×s    | 525.70 | Joback Method |
| dvisc | 0.0001570 | Pa×s    | 581.03 | Joback Method |
| dvisc | 0.0001105 | Pa×s    | 636.36 | Joback Method |
| dvisc | 0.0000822 | Pa×s    | 691.69 | Joback Method |

## Sources

|                        |                                                                                                                                         |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| <b>NIST Webbook:</b>   | <a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R69005&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R69005&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>                       |
| <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>                   |

## 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                            |
| <b>tf:</b>      | Normal melting (fusion) point                   |
| <b>vc:</b>      | Critical Volume                                 |

Latest version available from:

<https://www.chemeo.com/cid/21-702-8/E-9-hexadecenyl-acetate.pdf>

Generated by Cheméo on 2025-12-05 10:34:53.190312984 +0000 UTC m=+4679090.720353648.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.