

# 3,7-Dimethyloct-6-en-1-yl nonanoate

|                      |                                                                                  |
|----------------------|----------------------------------------------------------------------------------|
| Inchi:               | InChI=1S/C19H36O2/c1-5-6-7-8-9-10-14-19(20)21-16-15-18(4)13-11-12-17(2)3/h12,18H |
| InchiKey:            | ULWMBBYWQZNAMT-UHFFFAOYSA-N                                                      |
| Formula:             | C19H36O2                                                                         |
| SMILES:              | CCCCCCCCC(=O)OCCC(C)CCC=C(C)C                                                    |
| Mol. weight [g/mol]: | 296.49                                                                           |
| CAS:                 | 72934-18-0                                                                       |

## Physical Properties

| Property code | Value   | Unit    | Source         |
|---------------|---------|---------|----------------|
| gf            | -55.59  | kJ/mol  | Joback Method  |
| hf            | -578.14 | kJ/mol  | Joback Method  |
| hfus          | 43.12   | kJ/mol  | Joback Method  |
| hvap          | 66.69   | kJ/mol  | Joback Method  |
| log10ws       | -6.25   |         | Crippen Method |
| logp          | 6.053   |         | Crippen Method |
| mcvol         | 281.710 | ml/mol  | McGowan Method |
| pc            | 1164.04 | kPa     | Joback Method  |
| rinpol        | 2015.90 |         | NIST Webbook   |
| rinpol        | 2015.90 |         | NIST Webbook   |
| tb            | 714.01  | K       | Joback Method  |
| tc            | 890.48  | K       | Joback Method  |
| tf            | 342.01  | K       | Joback Method  |
| vc            | 1.099   | m3/kmol | Joback Method  |

## Temperature Dependent Properties

| Property code | Value  | Unit    | Temperature [K] | Source        |
|---------------|--------|---------|-----------------|---------------|
| cpg           | 826.29 | J/mol×K | 714.01          | Joback Method |
| cpg           | 845.37 | J/mol×K | 743.42          | Joback Method |
| cpg           | 863.55 | J/mol×K | 772.83          | Joback Method |
| cpg           | 880.86 | J/mol×K | 802.25          | Joback Method |
| cpg           | 897.32 | J/mol×K | 831.66          | Joback Method |
| cpg           | 912.96 | J/mol×K | 861.07          | Joback Method |
| cpg           | 927.82 | J/mol×K | 890.48          | Joback Method |

# Sources

|                        |                                                                                                                                               |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>NIST Webbook:</b>   | <a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C72934180&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C72934180&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>                             |
| <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>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>rlnpol:</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                                 |

Latest version available from:

<https://www.chemeo.com/cid/89-419-9/3-7-Dimethyloct-6-en-1-yl-nonanoate.pdf>

Generated by Cheméo on 2025-12-23 09:41:35.206822083 +0000 UTC m=+6231092.736862738.

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