

# Ethyl geranate

|                      |                                                                                                                                                                                                                                                 |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Other names:         | 2,6-Octadienoic acid, 3,7-dimethyl-, ethyl ester, (E)-<br>(E)-3,7-Dimethyl-2,6-octadienoic acid, ethyl ester<br>Ethyl (2E)-3,7-dimethyl-2,6-octadienoate<br>E-Ethyl geranate<br>Ethyl (E)-3,7-dimethylocta-2,6-dienoate<br>Ethyl trans-geranate |
| Inchi:               | InChI=1S/C12H20O2/c1-5-14-12(13)9-11(4)8-6-7-10(2)3/h7,9H,5-6,8H2,1-4H3/b11-9+                                                                                                                                                                  |
| InchiKey:            | ZPKNTCZTABQJPS-PKNBQFBNSA-N                                                                                                                                                                                                                     |
| Formula:             | C12H20O2                                                                                                                                                                                                                                        |
| SMILES:              | CCOC(=O)C=C(C)CCC=C(C)C                                                                                                                                                                                                                         |
| Mol. weight [g/mol]: | 196.29                                                                                                                                                                                                                                          |
| CAS:                 | 32659-21-5                                                                                                                                                                                                                                      |

## Physical Properties

| Property code | Value   | Unit    | Source         |
|---------------|---------|---------|----------------|
| gf            | -40.42  | kJ/mol  | Joback Method  |
| hf            | -320.95 | kJ/mol  | Joback Method  |
| hfus          | 27.41   | kJ/mol  | Joback Method  |
| hvap          | 51.54   | kJ/mol  | Joback Method  |
| log10ws       | -3.42   |         | Crippen Method |
| logp          | 3.242   |         | Crippen Method |
| mcvol         | 178.780 | ml/mol  | McGowan Method |
| pc            | 2047.46 | kPa     | Joback Method  |
| rinpol        | 1347.00 |         | NIST Webbook   |
| rinpol        | 1354.00 |         | NIST Webbook   |
| rinpol        | 1399.00 |         | NIST Webbook   |
| rinpol        | 1332.00 |         | NIST Webbook   |
| rinpol        | 1332.00 |         | NIST Webbook   |
| ripol         | 1762.00 |         | NIST Webbook   |
| ripol         | 1762.00 |         | NIST Webbook   |
| tb            | 558.33  | K       | Joback Method  |
| tc            | 748.06  | K       | Joback Method  |
| tf            | 259.08  | K       | Joback Method  |
| vc            | 0.694   | m3/kmol | Joback Method  |

# Temperature Dependent Properties

| Property code | Value  | Unit    | Temperature [K] | Source        |
|---------------|--------|---------|-----------------|---------------|
| cpg           | 426.65 | J/mol×K | 558.33          | Joback Method |
| cpg           | 442.01 | J/mol×K | 589.95          | Joback Method |
| cpg           | 456.62 | J/mol×K | 621.57          | Joback Method |
| cpg           | 470.50 | J/mol×K | 653.20          | Joback Method |
| cpg           | 483.69 | J/mol×K | 684.82          | Joback Method |
| cpg           | 496.22 | J/mol×K | 716.44          | Joback Method |
| cpg           | 508.12 | J/mol×K | 748.06          | Joback Method |

## Sources

|                 |                                                                                                                                               |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| 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>                         |
| NIST Webbook:   | <a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C32659215&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C32659215&amp;Units=SI</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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