

# Diamyl maleate

|                      |                                                                                   |
|----------------------|-----------------------------------------------------------------------------------|
| Other names:         | dipentyl maleate                                                                  |
| Inchi:               | InChI=1S/C14H24O4/c1-3-5-7-11-17-13(15)9-10-14(16)18-12-8-6-4-2/h9-10H,3-8,11-12H |
| InchiKey:            | NFCMRHDORQSGIS-KTKRTIGZSA-N                                                       |
| Formula:             | C14H24O4                                                                          |
| SMILES:              | CCCCCOC(=O)C=CC(=O)OCCCCC                                                         |
| Mol. weight [g/mol]: | 256.34                                                                            |
| CAS:                 | 10099-71-5                                                                        |

## Physical Properties

| Property code | Value   | Unit    | Source         |
|---------------|---------|---------|----------------|
| gf            | -320.62 | kJ/mol  | Joback Method  |
| hf            | -704.67 | kJ/mol  | Joback Method  |
| hfus          | 37.79   | kJ/mol  | Joback Method  |
| hvap          | 65.03   | kJ/mol  | Joback Method  |
| log10ws       | -3.26   |         | Crippen Method |
| logp          | 3.009   |         | Crippen Method |
| mcvol         | 218.700 | ml/mol  | McGowan Method |
| pc            | 1710.36 | kPa     | Joback Method  |
| tb            | 676.46  | K       | Joback Method  |
| tc            | 857.71  | K       | Joback Method  |
| tf            | 386.78  | K       | Joback Method  |
| vc            | 0.848   | m3/kmol | Joback Method  |

## Temperature Dependent Properties

| Property code | Value     | Unit    | Temperature [K] | Source        |
|---------------|-----------|---------|-----------------|---------------|
| cpg           | 600.12    | J/mol×K | 676.46          | Joback Method |
| cpg           | 615.28    | J/mol×K | 706.67          | Joback Method |
| cpg           | 629.69    | J/mol×K | 736.88          | Joback Method |
| cpg           | 643.39    | J/mol×K | 767.08          | Joback Method |
| cpg           | 656.37    | J/mol×K | 797.29          | Joback Method |
| cpg           | 668.66    | J/mol×K | 827.50          | Joback Method |
| cpg           | 680.26    | J/mol×K | 857.71          | Joback Method |
| dvisc         | 0.0013772 | Pa×s    | 386.78          | Joback Method |

|       |           |      |        |               |
|-------|-----------|------|--------|---------------|
| dvisc | 0.0007034 | Pa×s | 435.06 | Joback Method |
| dvisc | 0.0004109 | Pa×s | 483.34 | Joback Method |
| dvisc | 0.0002647 | Pa×s | 531.62 | Joback Method |
| dvisc | 0.0001834 | Pa×s | 579.90 | Joback Method |
| dvisc | 0.0001345 | Pa×s | 628.18 | Joback Method |
| dvisc | 0.0001031 | Pa×s | 676.46 | Joback Method |

## Sources

|                        |                                                                                                                                               |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <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>                         |
| <b>NIST Webbook:</b>   | <a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C10099715&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C10099715&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>                                     |

## 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>mccvol:</b>  | McGowan's characteristic volume                 |
| <b>pc:</b>      | Critical Pressure                               |
| <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/23-444-3/Diamyl-maleate.pdf>

Generated by Cheméo on 2025-12-24 00:12:50.278204112 +0000 UTC m=+6283367.808244766.

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