

# 2-CYCLOHEXYLETHYL ACETATE

|                      |                                                                                                                                                        |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Other names:         | Acetic acid, cyclohexylethyl ester<br>Cyclohexane ethyl acetate<br>Cyclohexylethyl acetate<br>Ethylcyclohexyl acetate<br>Hexahydrophenyl ethyl acetate |
| Inchi:               | InChI=1S/C10H18O2/c1-9(11)12-8-7-10-5-3-2-4-6-10/h10H,2-8H2,1H3                                                                                        |
| InchiKey:            | NOTFZGFABLVTIG-UHFFFAOYSA-N                                                                                                                            |
| Formula:             | C10H18O2                                                                                                                                               |
| SMILES:              | CC(=O)OCCC1CCCCC1                                                                                                                                      |
| Mol. weight [g/mol]: | 170.25                                                                                                                                                 |

## Physical Properties

| Property code | Value   | Unit    | Source             |
|---------------|---------|---------|--------------------|
| af            | 0.4485  |         | Cheméo Relay (1.0) |
| gf            | -176.15 | kJ/mol  | Joback Method      |
| hf            | -531.09 | kJ/mol  | Cheméo Relay (1.0) |
| hfus          | 16.28   | kJ/mol  | Joback Method      |
| hvap          | 59.84   | kJ/mol  | Cheméo Relay (1.0) |
| ie            | 9.46    | eV      | Cheméo Relay (1.0) |
| log10ws       | -2.99   |         | Cheméo Relay (1.0) |
| logp          | 2.520   |         | Crippen Method     |
| mcvol         | 148.340 | ml/mol  | McGowan Method     |
| pc            | 2693.00 | kPa     | Joback Method      |
| rinpol        | 1233.00 |         | NIST Webbook       |
| rinpol        | 1233.00 |         | NIST Webbook       |
| ripol         | 1591.00 |         | NIST Webbook       |
| ripol         | 1591.00 |         | NIST Webbook       |
| ripol         | 1591.00 |         | NIST Webbook       |
| tb            | 501.41  | K       | Cheméo Relay (1.0) |
| tc            | 702.21  | K       | Cheméo Relay (1.0) |
| tf            | 237.34  | K       | Cheméo Relay (1.0) |
| vc            | 0.524   | m3/kmol | Cheméo Relay (1.0) |

# Temperature Dependent Properties

| Property code | Value     | Unit    | Temperature [K] | Source                                                                                                                     |
|---------------|-----------|---------|-----------------|----------------------------------------------------------------------------------------------------------------------------|
| cpg           | 355.31    | J/mol×K | 524.04          | Joback Method                                                                                                              |
| cpg           | 373.16    | J/mol×K | 558.27          | Joback Method                                                                                                              |
| cpg           | 390.11    | J/mol×K | 592.49          | Joback Method                                                                                                              |
| cpg           | 406.18    | J/mol×K | 626.72          | Joback Method                                                                                                              |
| cpg           | 421.39    | J/mol×K | 660.94          | Joback Method                                                                                                              |
| cpg           | 435.73    | J/mol×K | 695.17          | Joback Method                                                                                                              |
| cpg           | 449.24    | J/mol×K | 729.39          | Joback Method                                                                                                              |
| dvisc         | 0.0025400 | Pa×s    | 300.00          | Temperature and composition dependence of the density and viscosity of binary mixtures of (1-decanol + fragrance material) |
| dvisc         | 0.0020700 | Pa×s    | 310.00          | Temperature and composition dependence of the density and viscosity of binary mixtures of (1-decanol + fragrance material) |
| dvisc         | 0.0017200 | Pa×s    | 320.00          | Temperature and composition dependence of the density and viscosity of binary mixtures of (1-decanol + fragrance material) |
| dvisc         | 0.0014600 | Pa×s    | 330.00          | Temperature and composition dependence of the density and viscosity of binary mixtures of (1-decanol + fragrance material) |
| dvisc         | 0.0012600 | Pa×s    | 340.00          | Temperature and composition dependence of the density and viscosity of binary mixtures of (1-decanol + fragrance material) |

# Pressure Dependent Properties

| Property code | Value  | Unit | Pressure [kPa] | Source       |
|---------------|--------|------|----------------|--------------|
| tbrp          | 370.70 | K    | 2.00           | NIST Webbook |

## Sources

|                                                                                                                             |                                                                                                                                               |
|-----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| McGowan Method:                                                                                                             | <a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>                         |
| Cheméo Relay (1.0, beta):                                                                                                   |                                                                                                                                               |
| NIST Webbook:                                                                                                               | <a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C21722838&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C21722838&amp;Units=SI</a> |
| Cheméo Relay (1.0):                                                                                                         |                                                                                                                                               |
| Solubility of fragrance raw materials in water: Experimental study, Joback Method and Mod. UNIFAC (Do)                      | <a href="https://www.doi.org/10.1016/j.jct.2010.07.013">https://www.doi.org/10.1016/j.jct.2010.07.013</a>                                     |
| predictions:                                                                                                                | <a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>                                         |
| 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>                             |
| Temperature and composition dependence of the density and viscosity of binary mixtures of (1-decanol + fragrance material): | <a href="https://www.doi.org/10.1016/j.tca.2009.02.013">https://www.doi.org/10.1016/j.tca.2009.02.013</a>                                     |

## Legend

|          |                                                 |
|----------|-------------------------------------------------|
| af:      | Acentric Factor                                 |
| cpg:     | Ideal gas heat capacity                         |
| dvisc:   | Dynamic viscosity                               |
| gf:      | Standard Gibbs free energy of formation         |
| hf:      | Enthalpy of formation at standard conditions    |
| hfus:    | Enthalpy of fusion at standard conditions       |
| hvap:    | Enthalpy of vaporization at standard conditions |
| ie:      | Ionization energy                               |
| log10ws: | Log10 of Water solubility in mol/l              |
| logp:    | Octanol/Water partition coefficient             |
| mcvol:   | McGowan's characteristic volume                 |
| pc:      | Critical Pressure                               |
| rinpol:  | Non-polar retention indices                     |
| ripol:   | Polar retention indices                         |
| tb:      | Normal Boiling Point Temperature                |

|              |                                   |
|--------------|-----------------------------------|
| <b>tbrp:</b> | Boiling point at reduced pressure |
| <b>tc:</b>   | Critical Temperature              |
| <b>tf:</b>   | Normal melting (fusion) point     |
| <b>vc:</b>   | Critical Volume                   |

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