# 2,4-Dimethylpentan-3-yl ethyl carbonate

**Inchi:** InChI=1S/C10H20O3/c1-6-12-10(11)13-9(7(2)3)8(4)5/h7-9H,6H2,1-5H3
**InchiKey:** GTRBOBAVUJEMQK-UHFFFAOYSA-N
**Formula:** C10H20O3
**SMILES:** CCOC(=O)OC(C(C)C)C(C)C
**Mol. weight [g/mol]:** 188.26

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -312.92 | kJ/mol | Joback Method |
| hf | -642.59 | kJ/mol | Joback Method |
| hfus | 15.06 | kJ/mol | Joback Method |
| hvap | 48.26 | kJ/mol | Joback Method |
| log10ws | -2.56 | | Crippen Method |
| logp | 2.840 | | Crippen Method |
| mcvol | 165.070 | ml/mol | McGowan Method |
| pc | 2214.53 | kPa | Joback Method |
| rinpol | 1115.00 | | NIST Webbook |
| tb | 525.59 | K | Joback Method |
| tc | 707.71 | K | Joback Method |
| tf | 251.85 | K | Joback Method |
| vc | 0.620 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 394.97 | J/mol×K | 525.59 | Joback Method |
| cpg | 409.95 | J/mol×K | 555.94 | Joback Method |
| cpg | 424.37 | J/mol×K | 586.30 | Joback Method |
| cpg | 438.21 | J/mol×K | 616.65 | Joback Method |
| cpg | 451.48 | J/mol×K | 647.01 | Joback Method |
| cpg | 464.17 | J/mol×K | 677.36 | Joback Method |
| cpg | 476.28 | J/mol×K | 707.71 | Joback Method |
| dvisc | 0.0070821 | Pa×s | 251.85 | Joback Method |
| dvisc | 0.0022874 | Pa×s | 297.47 | Joback Method |

| | | | | |
|---|---|---|---|---|
| dvisc | 0.0009978 | Pa×s | 343.10 | Joback Method |
| dvisc | 0.0005288 | Pa×s | 388.72 | Joback Method |
| dvisc | 0.0003203 | Pa×s | 434.34 | Joback Method |
| dvisc | 0.0002134 | Pa×s | 479.97 | Joback Method |
| dvisc | 0.0001525 | Pa×s | 525.59 | Joback Method |

# Sources

| | |
|---|---|
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| **Crippen Method:** | https://www.chemeo.com/doc/models/crippen_log10ws |
| **Joback Method:** | https://en.wikipedia.org/wiki/Joback_method |
| **McGowan Method:** | http://link.springer.com/article/10.1007/BF02311772 |
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=U373796&Units=SI |

# Legend

| | |
|---|---|
| **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 |
| **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 |
| **tb:** | Normal Boiling Point Temperature |
| **tc:** | Critical Temperature |
| **tf:** | Normal melting (fusion) point |
| **vc:** | Critical Volume |

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