# Carbonic acid, 2-methoxyethyl 3-methylphenyl ester

**Inchi:** InChI=1S/C11H14O4/c1-9-4-3-5-10(8-9)15-11(12)14-7-6-13-2/h3-5,8H,6-7H2,1-2H3

**InchiKey:** LXJDSIJCXUOMIW-UHFFFAOYSA-N

**Formula:** C11H14O4

**SMILES:** COCCOC(=O)Oc1cccc(C)c1

**Mol. weight [g/mol]:** 210.23

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -299.40 | kJ/mol | Joback Method |
| hf | -554.55 | kJ/mol | Joback Method |
| hfus | 23.06 | kJ/mol | Joback Method |
| hvap | 56.99 | kJ/mol | Joback Method |
| log10ws | -2.25 | | Crippen Method |
| logp | 2.157 | | Crippen Method |
| mcvol | 161.270 | ml/mol | McGowan Method |
| pc | 2640.67 | kPa | Joback Method |
| rinpol | 1566.00 | | NIST Webbook |
| tb | 603.87 | K | Joback Method |
| tc | 809.83 | K | Joback Method |
| tf | 369.29 | K | Joback Method |
| vc | 0.604 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 395.61 | J/mol×K | 603.87 | Joback Method |
| cpg | 409.31 | J/mol×K | 638.20 | Joback Method |
| cpg | 422.32 | J/mol×K | 672.52 | Joback Method |
| cpg | 434.65 | J/mol×K | 706.85 | Joback Method |
| cpg | 446.26 | J/mol×K | 741.17 | Joback Method |
| cpg | 457.16 | J/mol×K | 775.50 | Joback Method |
| cpg | 467.32 | J/mol×K | 809.83 | Joback Method |
| dvisc | 0.0009817 | Pa×s | 369.29 | Joback Method |
| dvisc | 0.0005935 | Pa×s | 408.39 | Joback Method |

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|---|---|---|---|---|
| dvisc | 0.0003919 | Pa×s | 447.48 | Joback Method |
| dvisc | 0.0002766 | Pa×s | 486.58 | Joback Method |
| dvisc | 0.0002056 | Pa×s | 525.68 | Joback Method |
| dvisc | 0.0001592 | Pa×s | 564.77 | Joback Method |
| dvisc | 0.0001274 | Pa×s | 603.87 | Joback Method |

# Sources

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|---|---|
| **McGowan Method:** | http://link.springer.com/article/10.1007/BF02311772 |
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=U357871&Units=SI |
| **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 |

# Legend

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|---|---|
| **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 |