# Ethanol, 2-phenoxy-, propanoate

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|---|---|
| **Other names:** | Ethanol, 2-phenoxy-, propionate |
| | 2-Phenoxyethyl propionate |
| | Ethyleneglycol monophenyl ether propionate |
| | Propionic acid, 2-phenoxyethyl ester |
| | 2-Phenoxyethanol propionate |
| | Phenyloxyethyl propionate |
| **Inchi:** | InChI=1S/C11H14O3/c1-2-11(12)14-9-8-13-10-6-4-3-5-7-10/h3-7H,2,8-9H2,1H3 |
| **InchiKey:** | FKTSMIXZGPUSJB-UHFFFAOYSA-N |
| **Formula:** | C11H14O3 |
| **SMILES:** | CCC(=O)OCCOc1ccccc1 |
| **Mol. weight [g/mol]:** | 194.23 |
| **CAS:** | 23495-12-7 |

# Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -184.77 | kJ/mol | Joback Method |
| hf | -410.86 | kJ/mol | Joback Method |
| hfus | 22.26 | kJ/mol | Joback Method |
| hvap | 53.92 | kJ/mol | Joback Method |
| log10ws | -2.13 | | Crippen Method |
| logp | 2.019 | | Crippen Method |
| mcvol | 155.400 | ml/mol | McGowan Method |
| pc | 2729.71 | kPa | Joback Method |
| rinpol | 1436.00 | | NIST Webbook |
| rinpol | 1447.00 | | NIST Webbook |
| rinpol | 1436.00 | | NIST Webbook |
| rinpol | 1447.00 | | NIST Webbook |
| ripol | 2126.00 | | NIST Webbook |
| ripol | 2126.00 | | NIST Webbook |
| tb | 576.47 | K | Joback Method |
| tc | 783.57 | K | Joback Method |
| tf | 334.54 | K | Joback Method |
| vc | 0.586 | m3/kmol | Joback Method |

# Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 371.22 | J/mol×K | 576.47 | Joback Method |
| cpg | 385.38 | J/mol×K | 610.99 | Joback Method |
| cpg | 398.78 | J/mol×K | 645.50 | Joback Method |
| cpg | 411.43 | J/mol×K | 680.02 | Joback Method |
| cpg | 423.35 | J/mol×K | 714.54 | Joback Method |
| cpg | 434.52 | J/mol×K | 749.05 | Joback Method |
| cpg | 444.97 | J/mol×K | 783.57 | Joback Method |
| dvisc | 0.0016964 | Pa×s | 334.54 | Joback Method |
| dvisc | 0.0009299 | Pa×s | 374.86 | Joback Method |
| dvisc | 0.0005728 | Pa×s | 415.18 | Joback Method |
| dvisc | 0.0003845 | Pa×s | 455.50 | Joback Method |
| dvisc | 0.0002753 | Pa×s | 495.83 | Joback Method |
| dvisc | 0.0002073 | Pa×s | 536.15 | Joback Method |
| dvisc | 0.0001625 | Pa×s | 576.47 | Joback Method |

# Sources

**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=C23495127&Units=SI
**Crippen Method:** http://pubs.acs.org/doi/abs/10.1021/ci990307l
**Crippen Method:** https://www.chemeo.com/doc/models/crippen_log10ws

# 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 |
| **ripol:** | Polar retention indices |
| **tb:** | Normal Boiling Point Temperature |
| **tc:** | Critical Temperature |
| **tf:** | Normal melting (fusion) point |
| **vc:** | Critical Volume |

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