

Ethanol, 2-[4-(1-methylpropyl)phenoxy]-

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| Other names: | 2-(p-sec-Butylphenoxy)ethanol 2-(4-sec-butylphenoxy)ethanol |
| Inchi: | InChI=1S/C12H18O2/c1-3-10(2)11-4-6-12(7-5-11)14-9-8-13/h4-7,10,13H,3,8-9H2,1-2H3 |
| InchiKey: | XMPKZDNQLSEWRU-UHFFFAOYSA-N |
| Formula: | C12H18O2 |
| SMILES: | CCC(C)c1ccc(OCCO)cc1 |
| Mol. weight [g/mol]: | 194.27 |
| CAS: | 5349-63-3 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|---------|----------------|
| gf | -91.32 | kJ/mol | Joback Method |
| hf | -355.68 | kJ/mol | Joback Method |
| hfus | 22.24 | kJ/mol | Joback Method |
| hvap | 63.95 | kJ/mol | Joback Method |
| log10ws | -2.88 | | Crippen Method |
| logp | 2.571 | | Crippen Method |
| mvol | 167.920 | ml/mol | McGowan Method |
| pc | 2574.11 | kPa | Joback Method |
| rinpol | 1536.00 | | NIST Webbook |
| rinpol | 1536.00 | | NIST Webbook |
| tb | 619.78 | K | Joback Method |
| tc | 810.79 | K | Joback Method |
| tf | 331.99 | K | Joback Method |
| vc | 0.630 | m3/kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 432.72 | J/molxK | 619.78 | Joback Method |
| cpg | 446.46 | J/molxK | 651.62 | Joback Method |
| cpg | 459.49 | J/molxK | 683.45 | Joback Method |
| cpg | 471.84 | J/molxK | 715.29 | Joback Method |
| cpg | 483.53 | J/molxK | 747.12 | Joback Method |

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|-------|-----------|---------|--------|---------------|
| cpg | 494.56 | J/molxK | 778.96 | Joback Method |
| cpg | 504.95 | J/molxK | 810.79 | Joback Method |
| dvisc | 0.0051871 | Paxs | 331.99 | Joback Method |
| dvisc | 0.0014778 | Paxs | 379.95 | Joback Method |
| dvisc | 0.0005579 | Paxs | 427.92 | Joback Method |
| dvisc | 0.0002563 | Paxs | 475.88 | Joback Method |
| dvisc | 0.0001358 | Paxs | 523.85 | Joback Method |
| dvisc | 0.0000800 | Paxs | 571.82 | Joback Method |
| dvisc | 0.0000512 | Paxs | 619.78 | Joback Method |

Sources

| | |
|------------------------|---|
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci9903071 |
| 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=C5349633&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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<https://www.chemeo.com/cid/85-690-2/Ethanol-2-4-1-methylpropyl-phenoxy.pdf>

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