# 2-Butoxyethyl nonanoate

**Inchi:** InChI=1S/C15H30O3/c1-3-5-7-8-9-10-11-15(16)18-14-13-17-12-6-4-2/h3-14H2,1-2H3
**InchiKey:** XHYOMWNQYADXSZ-UHFFFAOYSA-N
**Formula:** C15H30O3
**SMILES:** CCCCCCCCC(=O)OCCOCCCC
**Mol. weight [g/mol]:** 258.40

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -263.50 | kJ/mol | Joback Method |
| hf | -729.95 | kJ/mol | Joback Method |
| hfus | 38.58 | kJ/mol | Joback Method |
| hvap | 60.55 | kJ/mol | Joback Method |
| log10ws | -4.05 | | Crippen Method |
| logp | 4.097 | | Crippen Method |
| mcvol | 235.520 | ml/mol | McGowan Method |
| pc | 1446.83 | kPa | Joback Method |
| rinpol | 1748.00 | | NIST Webbook |
| tb | 641.31 | K | Joback Method |
| tc | 809.22 | K | Joback Method |
| tf | 353.20 | K | Joback Method |
| vc | 0.917 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 650.94 | J/mol×K | 641.31 | Joback Method |
| cpg | 668.13 | J/mol×K | 669.30 | Joback Method |
| cpg | 684.61 | J/mol×K | 697.28 | Joback Method |
| cpg | 700.39 | J/mol×K | 725.27 | Joback Method |
| cpg | 715.47 | J/mol×K | 753.25 | Joback Method |
| cpg | 729.86 | J/mol×K | 781.24 | Joback Method |
| cpg | 743.56 | J/mol×K | 809.22 | Joback Method |
| dvisc | 0.0017833 | Pa×s | 353.20 | Joback Method |
| dvisc | 0.0008424 | Pa×s | 401.22 | Joback Method |

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|---|---|---|---|---|
| dvisc | 0.0004671 | Pa×s | 449.24 | Joback Method |
| dvisc | 0.0002903 | Pa×s | 497.25 | Joback Method |
| dvisc | 0.0001962 | Pa×s | 545.27 | Joback Method |
| dvisc | 0.0001412 | Pa×s | 593.29 | Joback Method |
| dvisc | 0.0001068 | Pa×s | 641.31 | Joback Method |

# Sources

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|---|---|
| **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=U378253&Units=SI |

# 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 |