# 2-[2-[2-[2-[2-[2-[2-(2-Methoxyethoxy)ethoxy]ethoxy

**Inchi:** InChI=1S/C17H36O9/c1-19-4-5-21-8-9-23-12-13-25-16-17-26-15-14-24-11-10-22-7-6-20
**InchiKey:** SZGNWRSFHADOMY-UHFFFAOYSA-N
**Formula:** C17H36O9
**SMILES:** COCCOCCOCCOCCOCCOCCOCCOCCO
**Mol. weight [g/mol]:** 384.46
**CAS:** 25990-96-9

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -884.56 | kJ/mol | Joback Method |
| hf | -1604.20 | kJ/mol | Joback Method |
| hfus | 53.38 | kJ/mol | Joback Method |
| hvap | 89.39 | kJ/mol | Joback Method |
| log10ws | 1.10 | | Crippen Method |
| logp | -0.259 | | Crippen Method |
| mcvol | 303.220 | ml/mol | McGowan Method |
| pc | 1194.00 | kPa | Joback Method |
| rinpol | 2607.00 | | NIST Webbook |
| rinpol | 2622.30 | | NIST Webbook |
| tb | 859.90 | K | Joback Method |
| tc | 1055.09 | K | Joback Method |
| tf | 520.01 | K | Joback Method |
| vc | 1.151 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 1000.12 | J/mol×K | 859.90 | Joback Method |
| cpg | 1070.51 | J/mol×K | 1022.56 | Joback Method |
| cpg | 1059.50 | J/mol×K | 990.03 | Joback Method |
| cpg | 1046.91 | J/mol×K | 957.50 | Joback Method |
| cpg | 1032.78 | J/mol×K | 924.96 | Joback Method |
| cpg | 1017.17 | J/mol×K | 892.43 | Joback Method |
| cpg | 1079.88 | J/mol×K | 1055.09 | Joback Method |

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|---|---|---|---|---|
| dvisc | 0.0000024 | Pa×s | 859.90 | Joback Method |
| dvisc | 0.0000035 | Pa×s | 803.25 | Joback Method |
| dvisc | 0.0000054 | Pa×s | 746.60 | Joback Method |
| dvisc | 0.0000090 | Pa×s | 689.95 | Joback Method |
| dvisc | 0.0000163 | Pa×s | 633.31 | Joback Method |
| dvisc | 0.0000334 | Pa×s | 576.66 | Joback Method |
| dvisc | 0.0000797 | Pa×s | 520.01 | 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=C25990969&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

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