# 2-(2-(2-(2-(2-Isopentoxy-ethoxy)-ethoxy)-ethoxy)-e

**Inchi:** InChI=1S/C17H36O7/c1-17(2)3-5-19-7-9-21-11-13-23-15-16-24-14-12-22-10-8-20-6-4-18
**InchiKey:** PAQWBAUBRYXIIS-UHFFFAOYSA-N
**Formula:** C17H36O7
**SMILES:** CC(C)CCOCCOCCOCCOCCOCCOCCO
**Mol. weight [g/mol]:** 352.46

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -677.00 | kJ/mol | Joback Method |
| hf | -1345.04 | kJ/mol | Joback Method |
| hfus | 47.48 | kJ/mol | Joback Method |
| hvap | 84.19 | kJ/mol | Joback Method |
| log10ws | -0.48 | | Crippen Method |
| logp | 1.124 | | Crippen Method |
| mcvol | 291.480 | ml/mol | McGowan Method |
| pc | 1229.42 | kPa | Joback Method |
| rinpol | 2478.00 | | NIST Webbook |
| rinpol | 2478.00 | | NIST Webbook |
| tb | 814.62 | K | Joback Method |
| tc | 997.33 | K | Joback Method |
| tf | 460.55 | K | Joback Method |
| vc | 1.109 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 938.73 | J/mol×K | 814.62 | Joback Method |
| cpg | 956.04 | J/mol×K | 845.07 | Joback Method |
| cpg | 972.25 | J/mol×K | 875.52 | Joback Method |
| cpg | 987.33 | J/mol×K | 905.97 | Joback Method |
| cpg | 1001.27 | J/mol×K | 936.42 | Joback Method |
| cpg | 1014.04 | J/mol×K | 966.88 | Joback Method |
| cpg | 1025.62 | J/mol×K | 997.33 | Joback Method |
| dvisc | 0.0002772 | Pa×s | 460.55 | Joback Method |

| | | | | |
|---|---|---|---|---|
| dvisc | 0.0000936 | Pa×s | 519.56 | Joback Method |
| dvisc | 0.0000395 | Pa×s | 578.57 | Joback Method |
| dvisc | 0.0000195 | Pa×s | 637.59 | Joback Method |
| dvisc | 0.0000109 | Pa×s | 696.60 | Joback Method |
| dvisc | 0.0000066 | Pa×s | 755.61 | Joback Method |
| dvisc | 0.0000044 | Pa×s | 814.62 | Joback Method |

# Sources

| | |
|---|---|
| **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=R188146&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |

# 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 |