# Methyl tetracosyl ether

**Inchi:** InChI=1S/C25H52O/c1-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25
**InchiKey:** JLCJNLDDZJMFPQ-UHFFFAOYSA-N
**Formula:** C25H52O
**SMILES:** CCCCCCCCCCCCCCCCCCCCCCCCCOC
**Mol. weight [g/mol]:** 368.68

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 54.62 | kJ/mol | Joback Method |
| hf | -691.55 | kJ/mol | Joback Method |
| hfus | 61.69 | kJ/mol | Joback Method |
| hvap | 73.65 | kJ/mol | Joback Method |
| log10ws | -9.37 | | Crippen Method |
| logp | 9.235 | | Crippen Method |
| mcvol | 368.980 | ml/mol | McGowan Method |
| pc | 756.82 | kPa | Joback Method |
| rinpol | 2636.00 | | NIST Webbook |
| tb | 793.82 | K | Joback Method |
| tc | 971.87 | K | Joback Method |
| tf | 393.74 | K | Joback Method |
| vc | 1.454 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 1187.61 | J/mol×K | 793.82 | Joback Method |
| cpg | 1211.00 | J/mol×K | 823.49 | Joback Method |
| cpg | 1233.24 | J/mol×K | 853.17 | Joback Method |
| cpg | 1254.37 | J/mol×K | 882.84 | Joback Method |
| cpg | 1274.42 | J/mol×K | 912.52 | Joback Method |
| cpg | 1293.43 | J/mol×K | 942.19 | Joback Method |
| cpg | 1311.43 | J/mol×K | 971.87 | Joback Method |
| dvisc | 0.0013388 | Pa×s | 393.74 | Joback Method |
| dvisc | 0.0004804 | Pa×s | 460.42 | Joback Method |

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|---|---|---|---|---|
| dvisc | 0.0002234 | Pa×s | 527.10 | Joback Method |
| dvisc | 0.0001234 | Pa×s | 593.78 | Joback Method |
| dvisc | 0.0000768 | Pa×s | 660.46 | Joback Method |
| dvisc | 0.0000522 | Pa×s | 727.14 | Joback Method |
| dvisc | 0.0000378 | Pa×s | 793.82 | Joback Method |

# Sources

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|---|---|
| **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=U406296&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 |