

1-Methoxy-2,14-dimethylheptacosane

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|-----------------------------|---|
| Inchi: | InChI=1S/C30H62O/c1-5-6-7-8-9-10-11-13-16-19-22-25-29(2)26-23-20-17-14-12-15-18-2 |
| InchiKey: | VRRUMZGRQUTELI-UHFFFAOYSA-N |
| Formula: | C30H62O |
| SMILES: | CCCCCCCCCCCC(C)CCCCCCCCCCCC(C)COC |
| Mol. weight [g/mol]: | 438.81 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | 91.84 | kJ/mol | Joback Method |
| hf | -805.31 | kJ/mol | Joback Method |
| hfus | 67.60 | kJ/mol | Joback Method |
| hvap | 84.01 | kJ/mol | Joback Method |
| log10ws | -10.98 | | Crippen Method |
| logp | 10.897 | | Crippen Method |
| mvol | 439.430 | ml/mol | McGowan Method |
| pc | 595.17 | kPa | Joback Method |
| rinpol | 3005.00 | | NIST Webbook |
| tb | 907.34 | K | Joback Method |
| tc | 1118.98 | K | Joback Method |
| tf | 420.09 | K | Joback Method |
| vc | 1.722 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-----------|---------|-----------------|---------------|
| cpg | 1519.32 | J/molxK | 907.34 | Joback Method |
| cpg | 1546.31 | J/molxK | 942.61 | Joback Method |
| cpg | 1571.61 | J/molxK | 977.89 | Joback Method |
| cpg | 1595.28 | J/molxK | 1013.16 | Joback Method |
| cpg | 1617.40 | J/molxK | 1048.43 | Joback Method |
| cpg | 1638.05 | J/molxK | 1083.71 | Joback Method |
| cpg | 1657.31 | J/molxK | 1118.98 | Joback Method |
| dvisc | 0.0010616 | Paxs | 420.09 | Joback Method |
| dvisc | 0.0002936 | Paxs | 501.30 | Joback Method |

| | | | | |
|-------|-----------|------|--------|---------------|
| dvisc | 0.0001162 | Paxs | 582.51 | Joback Method |
| dvisc | 0.0000577 | Paxs | 663.72 | Joback Method |
| dvisc | 0.0000334 | Paxs | 744.92 | Joback Method |
| dvisc | 0.0000215 | Paxs | 826.13 | Joback Method |
| dvisc | 0.0000150 | Paxs | 907.34 | 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=R547085&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 |

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<https://www.chemeo.com/cid/40-341-8/1-Methoxy-2-14-dimethylheptacosane.pdf>

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