

Octyl tetracosyl ether

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|-----------------------------|--|
| Inchi: | InChI=1S/C32H66O/c1-3-5-7-9-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-28-3 |
| InchiKey: | PWYVIYHIAVGTGW-UHFFFAOYSA-N |
| Formula: | C32H66O |
| SMILES: | CCCCCCCCCCCCCCCCCCCCCCCCOCCCCCCCC |
| Mol. weight [g/mol]: | 466.87 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|---------|----------------|
| gf | 113.56 | kJ/mol | Joback Method |
| hf | -836.03 | kJ/mol | Joback Method |
| hfus | 79.82 | kJ/mol | Joback Method |
| hvap | 89.24 | kJ/mol | Joback Method |
| log10ws | -12.30 | | Crippen Method |
| logp | 11.966 | | Crippen Method |
| mcvol | 467.610 | ml/mol | McGowan Method |
| pc | 539.08 | kPa | Joback Method |
| rinpol | 3252.00 | | NIST Webbook |
| tb | 953.98 | K | Joback Method |
| tc | 1192.42 | K | Joback Method |
| tf | 472.63 | K | Joback Method |
| vc | 1.845 | m3/kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-----------|---------|-----------------|---------------|
| cpg | 1654.49 | J/molxK | 953.98 | Joback Method |
| cpg | 1783.31 | J/molxK | 1152.68 | Joback Method |
| cpg | 1761.29 | J/molxK | 1112.94 | Joback Method |
| cpg | 1737.51 | J/molxK | 1073.20 | Joback Method |
| cpg | 1711.87 | J/molxK | 1033.46 | Joback Method |
| cpg | 1684.24 | J/molxK | 993.72 | Joback Method |
| cpg | 1803.69 | J/molxK | 1192.42 | Joback Method |
| dvisc | 0.0000132 | Paxs | 953.98 | Joback Method |
| dvisc | 0.0000183 | Paxs | 873.76 | Joback Method |

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|-------|-----------|------|--------|---------------|
| dvisc | 0.0000273 | Paxs | 793.53 | Joback Method |
| dvisc | 0.0000445 | Paxs | 713.31 | Joback Method |
| dvisc | 0.0000821 | Paxs | 633.08 | Joback Method |
| dvisc | 0.0001809 | Paxs | 552.86 | Joback Method |
| dvisc | 0.0005211 | Paxs | 472.63 | Joback Method |

Sources

| | |
|------------------------|---|
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=U406390&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci9903071 |
| 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 |

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 |
| mvol: | 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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