

hexyl tetracosanoate

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| Inchi: | InChI=1S/C30H60O2/c1-3-5-7-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26- |
| InchiKey: | MSAXLBRULWLEJE-UHFFFAOYSA-N |
| Formula: | C30H60O2 |
| SMILES: | CCCCCCCCCCCCCCCCCCCCCCCC(=O)OCCCCC |
| Mol. weight [g/mol]: | 452.80 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | -32.20 | kJ/mol | Joback Method |
| hf | -907.33 | kJ/mol | Joback Method |
| hfus | 76.24 | kJ/mol | Joback Method |
| hvap | 91.53 | kJ/mol | Joback Method |
| log10ws | -11.24 | | Crippen Method |
| logp | 10.712 | | Crippen Method |
| mvol | 441.000 | ml/mol | McGowan Method |
| pc | 609.06 | kPa | Joback Method |
| rinpol | 3167.10 | | NIST Webbook |
| rinpol | 3167.10 | | NIST Webbook |
| tb | 962.09 | K | Joback Method |
| tc | 1195.84 | K | Joback Method |
| tf | 500.02 | K | Joback Method |
| vc | 1.740 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-----------|---------|-----------------|---------------|
| cpg | 1548.95 | J/molxK | 962.09 | Joback Method |
| cpg | 1575.26 | J/molxK | 1001.05 | Joback Method |
| cpg | 1599.65 | J/molxK | 1040.01 | Joback Method |
| cpg | 1622.22 | J/molxK | 1078.97 | Joback Method |
| cpg | 1643.07 | J/molxK | 1117.92 | Joback Method |
| cpg | 1662.31 | J/molxK | 1156.88 | Joback Method |
| cpg | 1680.03 | J/molxK | 1195.84 | Joback Method |
| dvisc | 0.0004872 | Paxs | 500.02 | Joback Method |

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|-------|-----------|------|--------|---------------|
| dvisc | 0.0001913 | Paxs | 577.03 | Joback Method |
| dvisc | 0.0000936 | Paxs | 654.04 | Joback Method |
| dvisc | 0.0000532 | Paxs | 731.05 | Joback Method |
| dvisc | 0.0000337 | Paxs | 808.07 | Joback Method |
| dvisc | 0.0000231 | Paxs | 885.08 | Joback Method |
| dvisc | 0.0000168 | Paxs | 962.09 | Joback Method |

Sources

| | |
|------------------------|---|
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=R437859&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 |
| 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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