

1-Tetradecanol, 14-chloro, acetate

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|-----------------------------|--|
| Other names: | 14-Chlorotetradecyl acetate |
| Inchi: | InChI=1S/C16H31ClO2/c1-16(18)19-15-13-11-9-7-5-3-2-4-6-8-10-12-14-17/h2-15H2,1H3 |
| InchiKey: | KNCYMLPVRRLJEN-UHFFFAOYSA-N |
| Formula: | C16H31ClO2 |
| SMILES: | CC(=O)OCCCCCCCCCCCCCCCCI |
| Mol. weight [g/mol]: | 290.87 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | -162.01 | kJ/mol | Joback Method |
| hf | -634.11 | kJ/mol | Joback Method |
| hfus | 44.18 | kJ/mol | Joback Method |
| hvap | 64.75 | kJ/mol | Joback Method |
| log10ws | -5.54 | | Crippen Method |
| logp | 5.470 | | Crippen Method |
| mcpol | 255.980 | ml/mol | McGowan Method |
| pc | 1327.14 | kPa | Joback Method |
| ripol | 2072.00 | | NIST Webbook |
| ripol | 2068.00 | | NIST Webbook |
| ripol | 2066.00 | | NIST Webbook |
| ripol | 2608.00 | | NIST Webbook |
| ripol | 2589.00 | | NIST Webbook |
| ripol | 2620.00 | | NIST Webbook |
| ripol | 2635.00 | | NIST Webbook |
| ripol | 2589.00 | | NIST Webbook |
| tb | 679.20 | K | Joback Method |
| tc | 851.53 | K | Joback Method |
| tf | 372.16 | K | Joback Method |
| vc | 1.004 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 710.59 | J/mol×K | 679.20 | Joback Method |

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|-------|-----------|---------|--------|---------------|
| cpg | 788.57 | J/molxK | 822.81 | Joback Method |
| cpg | 774.47 | J/molxK | 794.09 | Joback Method |
| cpg | 759.63 | J/molxK | 765.36 | Joback Method |
| cpg | 744.05 | J/molxK | 736.64 | Joback Method |
| cpg | 727.71 | J/molxK | 707.92 | Joback Method |
| cpg | 801.97 | J/molxK | 851.53 | Joback Method |
| dvisc | 0.0001101 | Paxs | 679.20 | Joback Method |
| dvisc | 0.0001460 | Paxs | 628.03 | Joback Method |
| dvisc | 0.0002037 | Paxs | 576.85 | Joback Method |
| dvisc | 0.0003032 | Paxs | 525.68 | Joback Method |
| dvisc | 0.0004917 | Paxs | 474.51 | Joback Method |
| dvisc | 0.0008962 | Paxs | 423.33 | Joback Method |
| dvisc | 0.0019268 | Paxs | 372.16 | Joback Method |

Sources

| | |
|------------------------|---|
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=R33662&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 |
| ripol: | Polar retention indices |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |

tf: Normal melting (fusion) point

vc: Critical Volume

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