# (4E,6Z)-4,6-hexadecadienyl acetate

**Inchi:** InChI=1S/C18H32O2/c1-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-20-18(2)19/h11-14H,3-1
**InchiKey:** HCQKUIBZXJOAOA-RCWDKCQFSA-N
**Formula:** C18H32O2
**SMILES:** CCCCCCCCCC=CC=CCCCOC(C)=O
**Mol. weight [g/mol]:** 280.45

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 27.20 | kJ/mol | Joback Method |
| hf | -425.21 | kJ/mol | Joback Method |
| hfus | 45.57 | kJ/mol | Joback Method |
| hvap | 64.73 | kJ/mol | Joback Method |
| log10ws | -5.93 | | Crippen Method |
| logp | 5.583 | | Crippen Method |
| mcvol | 263.320 | ml/mol | McGowan Method |
| pc | 1279.16 | kPa | Joback Method |
| rinpol | 2023.00 | | NIST Webbook |
| rinpol | 2022.00 | | NIST Webbook |
| rinpol | 2022.00 | | NIST Webbook |
| rinpol | 2023.00 | | NIST Webbook |
| rinpol | 2022.00 | | NIST Webbook |
| tb | 695.85 | K | Joback Method |
| tc | 872.86 | K | Joback Method |
| tf | 354.62 | K | Joback Method |
| vc | 1.028 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 745.84 | J/mol×K | 695.85 | Joback Method |
| cpg | 763.70 | J/mol×K | 725.35 | Joback Method |
| cpg | 780.72 | J/mol×K | 754.85 | Joback Method |
| cpg | 796.93 | J/mol×K | 784.36 | Joback Method |
| cpg | 812.37 | J/mol×K | 813.86 | Joback Method |

| | | | | |
|---|---|---|---|---|
| cpg | 827.07 | J/mol×K | 843.36 | Joback Method |
| cpg | 841.08 | J/mol×K | 872.86 | Joback Method |
| dvisc | 0.0017692 | Pa×s | 354.62 | Joback Method |
| dvisc | 0.0007146 | Pa×s | 411.49 | Joback Method |
| dvisc | 0.0003597 | Pa×s | 468.36 | Joback Method |
| dvisc | 0.0002101 | Pa×s | 525.24 | Joback Method |
| dvisc | 0.0001363 | Pa×s | 582.11 | Joback Method |
| dvisc | 0.0000955 | Pa×s | 638.98 | Joback Method |
| dvisc | 0.0000709 | Pa×s | 695.85 | Joback Method |

# Sources

**McGowan Method:** http://link.springer.com/article/10.1007/BF02311772
**NIST Webbook:** http://webbook.nist.gov/cgi/cbook.cgi?ID=R506297&Units=SI
**Crippen Method:** http://pubs.acs.org/doi/abs/10.1021/ci990307l
**Crippen Method:** https://www.chemeo.com/doc/models/crippen_log10ws
**Joback Method:** https://en.wikipedia.org/wiki/Joback_method

# 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