# Octadec-9-enoic acid tetradec-9-enyl ester, Z,Z

**Inchi:** InChI=1S/C32H60O2/c1-3-5-7-9-11-13-15-17-18-19-20-22-24-26-28-30-32(33)34-31-29-
**InchiKey:** GTCWHKMMUCANJX-IEVNOYOBSA-N
**Formula:** C32H60O2
**SMILES:** CCCCC=CCCCCCCCCOC(=O)CCCCCCCC=CCCCCCCCC
**Mol. weight [g/mol]:** 476.82

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 145.08 | kJ/mol | Joback Method |
| hf | -714.17 | kJ/mol | Joback Method |
| hfus | 81.83 | kJ/mol | Joback Method |
| hvap | 95.90 | kJ/mol | Joback Method |
| log10ws | -11.79 | | Crippen Method |
| logp | 11.044 | | Crippen Method |
| mcvol | 460.580 | ml/mol | McGowan Method |
| pc | 583.44 | kPa | Joback Method |
| rinpol | 3314.12 | | NIST Webbook |
| rinpol | 3314.12 | | NIST Webbook |
| tb | 1016.17 | K | Joback Method |
| tc | 1268.18 | K | Joback Method |
| tf | 512.40 | K | Joback Method |
| vc | 1.812 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 1627.52 | J/mol×K | 1016.17 | Joback Method |
| cpg | 1747.75 | J/mol×K | 1226.18 | Joback Method |
| cpg | 1726.40 | J/mol×K | 1184.18 | Joback Method |
| cpg | 1703.89 | J/mol×K | 1142.18 | Joback Method |
| cpg | 1680.02 | J/mol×K | 1100.17 | Joback Method |
| cpg | 1654.62 | J/mol×K | 1058.17 | Joback Method |
| cpg | 1768.11 | J/mol×K | 1268.18 | Joback Method |
| dvisc | 0.0000095 | Pa×s | 1016.17 | Joback Method |

| | | | | |
|---|---|---|---|---|
| dvisc | 0.0000131 | Pa×s | 932.21 | Joback Method |
| dvisc | 0.0000193 | Pa×s | 848.25 | Joback Method |
| dvisc | 0.0000309 | Pa×s | 764.29 | Joback Method |
| dvisc | 0.0000557 | Pa×s | 680.32 | Joback Method |
| dvisc | 0.0001185 | Pa×s | 596.36 | Joback Method |
| dvisc | 0.0003224 | Pa×s | 512.40 | Joback Method |

# Sources

| | |
|---|---|
| **McGowan Method:** | http://link.springer.com/article/10.1007/BF02311772 |
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=R436623&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 |

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