# 7,10-Epoxy-10-methoxysalvialane

**Inchi:** InChI=1S/C16H28O2/c1-11(2)12-6-7-15(4)13(12)10-14(3)8-9-16(15,17-5)18-14/h11-13H
**InchiKey:** XQLGIQDOQAKOHV-AKJSJKFASA-N
**Formula:** C16H28O2
**SMILES:** COC12CCC(C)(CC3C(C(C)C)CCC31C)O2
**Mol. weight [g/mol]:** 252.39

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 16.44 | kJ/mol | Joback Method |
| hf | -431.95 | kJ/mol | Joback Method |
| hfus | 16.29 | kJ/mol | Joback Method |
| hvap | 53.75 | kJ/mol | Joback Method |
| log10ws | -4.13 | | Crippen Method |
| logp | 3.990 | | Crippen Method |
| mcvol | 215.460 | ml/mol | McGowan Method |
| pc | 1952.68 | kPa | Joback Method |
| rinpol | 1586.00 | | NIST Webbook |
| tb | 634.55 | K | Joback Method |
| tc | 860.66 | K | Joback Method |
| tf | 413.88 | K | Joback Method |
| vc | 0.811 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 641.29 | J/mol×K | 634.55 | Joback Method |
| cpg | 664.39 | J/mol×K | 672.24 | Joback Method |
| cpg | 686.42 | J/mol×K | 709.92 | Joback Method |
| cpg | 707.76 | J/mol×K | 747.61 | Joback Method |
| cpg | 728.79 | J/mol×K | 785.29 | Joback Method |
| cpg | 749.89 | J/mol×K | 822.98 | Joback Method |
| cpg | 771.45 | J/mol×K | 860.66 | Joback Method |

# Sources

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|---|---|
| **Joback Method:** | https://en.wikipedia.org/wiki/Joback_method |
| **McGowan Method:** | http://link.springer.com/article/10.1007/BF02311772 |
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=R236101&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| **Crippen Method:** | https://www.chemeo.com/doc/models/crippen_log10ws |

# Legend

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|---|---|
| **cpg:** | Ideal gas heat capacity |
| **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 |