# 4b,5«beta»-Diacetoxygymnomitr-3(15)-ene

**Other names:** (-)-4«beta»,5«beta»-Diacetoxygymnomitr-3(15)-ene
**Inchi:** InChI=1S/C19H28O4/c1-11-14-10-18(5,19(6)9-7-8-17(14,19)4)16(23-13(3)21)15(11)22-1
**InchiKey:** JKQYQVNQRKCWEJ-FSQANUGRSA-N
**Formula:** C19H28O4
**SMILES:** C=C1C(OC(C)=O)C(OC(C)=O)C2(C)CC1C1(C)CCCC12C
**Mol. weight [g/mol]:** 320.42

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -187.21 | kJ/mol | Joback Method |
| hf | -650.07 | kJ/mol | Joback Method |
| hfus | 23.91 | kJ/mol | Joback Method |
| hvap | 72.06 | kJ/mol | Joback Method |
| log10ws | -4.30 | | Crippen Method |
| logp | 3.642 | | Crippen Method |
| mcvol | 256.570 | ml/mol | McGowan Method |
| pc | 1659.19 | kPa | Joback Method |
| rinpol | 1943.00 | | NIST Webbook |
| rinpol | 1943.00 | | NIST Webbook |
| rinpol | 1943.00 | | NIST Webbook |
| tb | 801.33 | K | Joback Method |
| tc | 1025.23 | K | Joback Method |
| tf | 567.65 | K | Joback Method |
| vc | 0.978 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 837.61 | J/mol×K | 801.33 | Joback Method |
| cpg | 860.42 | J/mol×K | 838.65 | Joback Method |
| cpg | 883.57 | J/mol×K | 875.96 | Joback Method |
| cpg | 907.42 | J/mol×K | 913.28 | Joback Method |
| cpg | 932.30 | J/mol×K | 950.59 | Joback Method |
| cpg | 958.56 | J/mol×K | 987.91 | Joback Method |

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|---|---|---|---|---|
| cpg | 986.54 | J/mol×K | 1025.23 | Joback Method |

# Sources

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|---|---|
| **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 |
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=R425995&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |

# 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 |