# «beta»-Microbiotene

**Inchi:** InChI=1S/C15H24/c1-11-6-9-15(10-12(11)15)14(4)8-5-7-13(14,2)3/h12H,1,5-10H2,2-4H3
**InchiKey:** YMPBLULPBSVQLP-SNPRPXQTSA-N
**Formula:** C15H24
**SMILES:** C=C1CCC2(C3(C)CCCC3(C)C)CC12
**Mol. weight [g/mol]:** 204.35

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 262.37 | kJ/mol | Joback Method |
| hf | -37.23 | kJ/mol | Joback Method |
| hfus | 5.83 | kJ/mol | Joback Method |
| hvap | 45.46 | kJ/mol | Joback Method |
| log10ws | -4.67 | | Crippen Method |
| logp | 4.559 | | Crippen Method |
| mcvol | 185.330 | ml/mol | McGowan Method |
| pc | 2274.07 | kPa | Joback Method |
| rinpol | 1471.00 | | NIST Webbook |
| rinpol | 1473.00 | | NIST Webbook |
| tb | 566.57 | K | Joback Method |
| tc | 800.20 | K | Joback Method |
| tf | 386.73 | K | Joback Method |
| vc | 0.708 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 500.14 | J/mol×K | 566.57 | Joback Method |
| cpg | 522.76 | J/mol×K | 605.51 | Joback Method |
| cpg | 543.69 | J/mol×K | 644.45 | Joback Method |
| cpg | 563.39 | J/mol×K | 683.38 | Joback Method |
| cpg | 582.28 | J/mol×K | 722.32 | Joback Method |
| cpg | 600.82 | J/mol×K | 761.26 | Joback Method |
| cpg | 619.44 | J/mol×K | 800.20 | Joback Method |

# Sources

| | |
|---|---|
| **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 |
| **McGowan Method:** | http://link.springer.com/article/10.1007/BF02311772 |
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=R620794&Units=SI |

# Legend

| | |
|---|---|
| **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 |