# epi-Laurenene

**Inchi:** InChI=1S/C20H32/c1-14-7-6-10-18(4)12-9-16-17(2,3)13-19(5)11-8-15(14)20(16,18)19/h8
**InchiKey:** TYDFDHZTDWVUJF-XZANERMPSA-N
**Formula:** C20H32
**SMILES:** CC1CCCC2(C)CCC3C(C)(C)CC4(C)CC=C1C324
**Mol. weight [g/mol]:** 272.47

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 307.17 | kJ/mol | Joback Method |
| hf | -116.82 | kJ/mol | Joback Method |
| hfus | 11.58 | kJ/mol | Joback Method |
| hvap | 56.01 | kJ/mol | Joback Method |
| log10ws | -6.18 | | Crippen Method |
| logp | 5.975 | | Crippen Method |
| mcvol | 244.920 | ml/mol | McGowan Method |
| pc | 1724.59 | kPa | Joback Method |
| rinpol | 1891.00 | | NIST Webbook |
| tb | 692.53 | K | Joback Method |
| tc | 936.67 | K | Joback Method |
| tf | 476.76 | K | Joback Method |
| vc | 0.935 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 762.21 | J/mol×K | 692.53 | Joback Method |
| cpg | 788.76 | J/mol×K | 733.22 | Joback Method |
| cpg | 814.91 | J/mol×K | 773.91 | Joback Method |
| cpg | 841.35 | J/mol×K | 814.60 | Joback Method |
| cpg | 868.72 | J/mol×K | 855.29 | Joback Method |
| cpg | 897.71 | J/mol×K | 895.98 | Joback Method |
| cpg | 928.97 | J/mol×K | 936.67 | Joback Method |

# Sources

| | |
|---|---|
| **McGowan Method:** | http://link.springer.com/article/10.1007/BF02311772 |
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=R570020&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

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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 |