# Linestrenol

**Other names:** lynestrenol
**Inchi:** InChI=1S/C20H28O/c1-3-20(21)13-11-18-17-9-8-14-6-4-5-7-15(14)16(17)10-12-19(18,20
**InchiKey:** YNVGQYHLRCDXFQ-UEDNIHKISA-N
**Formula:** C20H28O
**SMILES:** C#CC1(O)CCC2C3CCC4=CCCCC4C3CCC21C
**Mol. weight [g/mol]:** 284.44
**CAS:** 52-76-6

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 380.20 | kJ/mol | Joback Method |
| hf | -19.95 | kJ/mol | Joback Method |
| hfus | 27.04 | kJ/mol | Joback Method |
| hvap | 75.20 | kJ/mol | Joback Method |
| log10ws | -5.59 | | Crippen Method |
| logp | 4.313 | | Crippen Method |
| mcvol | 242.190 | ml/mol | McGowan Method |
| pc | 2051.17 | kPa | Joback Method |
| rinpol | 2319.00 | | NIST Webbook |
| rinpol | 2319.00 | | NIST Webbook |
| tb | 782.89 | K | Joback Method |
| tc | 1018.79 | K | Joback Method |
| tf | 529.71 | K | Joback Method |
| vc | 0.904 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 802.93 | J/mol×K | 782.89 | Joback Method |
| cpg | 826.27 | J/mol×K | 822.21 | Joback Method |
| cpg | 849.31 | J/mol×K | 861.52 | Joback Method |
| cpg | 872.44 | J/mol×K | 900.84 | Joback Method |
| cpg | 896.02 | J/mol×K | 940.16 | Joback Method |
| cpg | 920.43 | J/mol×K | 979.47 | Joback Method |

| | | | | |
|---|---|---|---|---|
| cpg | 946.03 | J/mol×K | 1018.79 | Joback Method |

# Sources

| | |
|---|---|
| **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=C52766&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |

# 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 |

Latest version available from:
https://www.chemeo.com/cid/10-689-6/Linestrenol.pdf
Generated by Cheméo on 2025-12-23 06:44:48.114586185 +0000 UTC m=+6220485.644626845.
Cheméo (https://www.chemeo.com) is the biggest free database of chemical and physical data for the process industry.