# (E)6-Dodecen-1-ol

**Other names:** 6-dodecenol, E
**Inchi:** InChI=1S/C12H24O/c1-2-3-4-5-6-7-8-9-10-11-12-13/h6-7,13H,2-5,8-12H2,1H3/b7-6+
**InchiKey:** IENBWMQKVZLORT-VOTSOKGWSA-N
**Formula:** C12H24O
**SMILES:** CCCCCC=CCCCCCO
**Mol. weight [g/mol]:** 184.32

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -6.44 | kJ/mol | Joback Method |
| hf | -326.02 | kJ/mol | Joback Method |
| hfus | 31.13 | kJ/mol | Joback Method |
| hvap | 58.94 | kJ/mol | Joback Method |
| log10ws | -3.96 | | Crippen Method |
| logp | 3.676 | | Crippen Method |
| mcvol | 181.510 | ml/mol | McGowan Method |
| pc | 2018.13 | kPa | Joback Method |
| rinpol | 1462.00 | | NIST Webbook |
| ripol | 2018.00 | | NIST Webbook |
| ripol | 2001.00 | | NIST Webbook |
| ripol | 2018.00 | | NIST Webbook |
| ripol | 1984.00 | | NIST Webbook |
| tb | 570.30 | K | Joback Method |
| tc | 733.56 | K | Joback Method |
| tf | 280.74 | K | Joback Method |
| vc | 0.707 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 459.51 | J/mol×K | 570.30 | Joback Method |
| cpg | 524.90 | J/mol×K | 706.35 | Joback Method |
| cpg | 512.93 | J/mol×K | 679.14 | Joback Method |
| cpg | 500.43 | J/mol×K | 651.93 | Joback Method |

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|---|---|---|---|---|
| cpg | 487.37 | J/mol×K | 624.72 | Joback Method |
| cpg | 473.74 | J/mol×K | 597.51 | Joback Method |
| cpg | 536.36 | J/mol×K | 733.56 | Joback Method |
| dvisc | 0.0000721 | Pa×s | 570.30 | Joback Method |
| dvisc | 0.0001199 | Pa×s | 522.04 | Joback Method |
| dvisc | 0.0002211 | Pa×s | 473.78 | Joback Method |
| dvisc | 0.0004685 | Pa×s | 425.52 | Joback Method |
| dvisc | 0.0012026 | Pa×s | 377.26 | Joback Method |
| dvisc | 0.0040712 | Pa×s | 329.00 | Joback Method |
| dvisc | 0.0209597 | Pa×s | 280.74 | Joback Method |

# Sources

**McGowan Method:** http://link.springer.com/article/10.1007/BF02311772
**NIST Webbook:** http://webbook.nist.gov/cgi/cbook.cgi?ID=R495340&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

**cpg:** Ideal gas heat capacity
**dvisc:** Dynamic viscosity
**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
**ripol:** Polar retention indices
**tb:** Normal Boiling Point Temperature
**tc:** Critical Temperature
**tf:** Normal melting (fusion) point
**vc:** Critical Volume