

2-Hexen-1-ol, (E)-

| | |
|-----------------------------|--|
| Other names: | (E)-2-Hexen-1-ol (E)-2-Hexene-1-ol (E)-2-Hexenol (E)-Hex-2-enol 2-(E)-Hexenol 2-Hexen-1-ol, trans- 2-Hexenol E-Hex-2-en-1-ol Hex-2(E)-enol t-2-Hexen-1-ol trans-2-Hexen-1-ol trans-2-Hexenol trans-hex-2-en-1-ol |
| Inchi: | InChI=1S/C6H12O/c1-2-3-4-5-6-7/h4-5,7H,2-3,6H2,1H3/b5-4+ |
| InchiKey: | ZCHHRLHTBGRGOT-SNAWJCMRSA-N |
| Formula: | C6H12O |
| SMILES: | CCCC=CCO |
| Mol. weight [g/mol]: | 100.16 |
| CAS: | 928-95-0 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|--------|----------------|
| gf | -56.96 | kJ/mol | Joback Method |
| hf | -202.18 | kJ/mol | Joback Method |
| hfus | 15.59 | kJ/mol | Joback Method |
| hvap | 45.59 | kJ/mol | Joback Method |
| log10ws | -1.45 | | Crippen Method |
| logp | 1.335 | | Crippen Method |
| mcvol | 96.970 | ml/mol | McGowan Method |
| pc | 3673.09 | kPa | Joback Method |
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| ripol | 1370.00 | | NIST Webbook |
| ripol | 1368.00 | | NIST Webbook |
| ripol | 1380.00 | | NIST Webbook |
| tb | 432.20 | K | NIST Webbook |
| tc | 601.76 | K | Joback Method |
| tf | 213.12 | K | Joback Method |
| vc | 0.370 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-----------|---------|-----------------|---------------|
| cpg | 240.99 | J/molxK | 601.76 | Joback Method |
| cpg | 200.94 | J/molxK | 461.14 | Joback Method |
| cpg | 209.69 | J/molxK | 489.27 | Joback Method |
| cpg | 218.06 | J/molxK | 517.39 | Joback Method |
| cpg | 226.05 | J/molxK | 545.51 | Joback Method |
| cpg | 233.69 | J/molxK | 573.64 | Joback Method |
| cpg | 191.78 | J/molxK | 433.02 | Joback Method |
| dvisc | 0.0002006 | Paxs | 433.02 | Joback Method |
| dvisc | 0.0003473 | Paxs | 396.37 | Joback Method |
| dvisc | 0.0006726 | Paxs | 359.72 | Joback Method |
| dvisc | 0.0015133 | Paxs | 323.07 | Joback Method |
| dvisc | 0.0041899 | Paxs | 286.42 | Joback Method |
| dvisc | 0.0156415 | Paxs | 249.77 | Joback Method |
| dvisc | 0.0918576 | Paxs | 213.12 | Joback Method |

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|------|----------|-----|--------|--|
| pvap | 2.07e-04 | kPa | 238.15 | Vapor pressures and thermophysical properties of selected hexenols and recommended vapor pressure for hexan-1-ol |
| pvap | 7.72e-04 | kPa | 248.15 | Vapor pressures and thermophysical properties of selected hexenols and recommended vapor pressure for hexan-1-ol |
| pvap | 1.40e-03 | kPa | 253.15 | Vapor pressures and thermophysical properties of selected hexenols and recommended vapor pressure for hexan-1-ol |
| pvap | 1.40e-03 | kPa | 253.15 | Vapor pressures and thermophysical properties of selected hexenols and recommended vapor pressure for hexan-1-ol |
| pvap | 1.40e-03 | kPa | 253.15 | Vapor pressures and thermophysical properties of selected hexenols and recommended vapor pressure for hexan-1-ol |
| pvap | 2.48e-03 | kPa | 258.15 | Vapor pressures and thermophysical properties of selected hexenols and recommended vapor pressure for hexan-1-ol |
| pvap | 2.49e-03 | kPa | 258.15 | Vapor pressures and thermophysical properties of selected hexenols and recommended vapor pressure for hexan-1-ol |

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|------|----------|-----|--------|--|
| pvap | 2.49e-03 | kPa | 258.15 | Vapor pressures and thermophysical properties of selected hexenols and recommended vapor pressure for hexan-1-ol |
| pvap | 4.31e-03 | kPa | 263.15 | Vapor pressures and thermophysical properties of selected hexenols and recommended vapor pressure for hexan-1-ol |
| pvap | 4.32e-03 | kPa | 263.15 | Vapor pressures and thermophysical properties of selected hexenols and recommended vapor pressure for hexan-1-ol |
| pvap | 4.32e-03 | kPa | 263.15 | Vapor pressures and thermophysical properties of selected hexenols and recommended vapor pressure for hexan-1-ol |
| pvap | 7.30e-03 | kPa | 268.15 | Vapor pressures and thermophysical properties of selected hexenols and recommended vapor pressure for hexan-1-ol |
| pvap | 7.31e-03 | kPa | 268.15 | Vapor pressures and thermophysical properties of selected hexenols and recommended vapor pressure for hexan-1-ol |
| pvap | 7.32e-03 | kPa | 268.15 | Vapor pressures and thermophysical properties of selected hexenols and recommended vapor pressure for hexan-1-ol |

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|------|------|-----|--------|--|
| pvap | 0.01 | kPa | 273.15 | Vapor pressures and thermophysical properties of selected hexenols and recommended vapor pressure for hexan-1-ol |
| pvap | 0.01 | kPa | 273.15 | Vapor pressures and thermophysical properties of selected hexenols and recommended vapor pressure for hexan-1-ol |
| pvap | 0.01 | kPa | 273.15 | Vapor pressures and thermophysical properties of selected hexenols and recommended vapor pressure for hexan-1-ol |
| pvap | 0.01 | kPa | 273.65 | Vapor pressures and thermophysical properties of selected hexenols and recommended vapor pressure for hexan-1-ol |
| pvap | 0.01 | kPa | 273.65 | Vapor pressures and thermophysical properties of selected hexenols and recommended vapor pressure for hexan-1-ol |
| pvap | 0.01 | kPa | 273.65 | Vapor pressures and thermophysical properties of selected hexenols and recommended vapor pressure for hexan-1-ol |
| pvap | 0.02 | kPa | 278.15 | Vapor pressures and thermophysical properties of selected hexenols and recommended vapor pressure for hexan-1-ol |

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|------|------|-----|--------|--|
| pvap | 0.02 | kPa | 278.15 | Vapor pressures and thermophysical properties of selected hexenols and recommended vapor pressure for hexan-1-ol |
| pvap | 0.02 | kPa | 278.15 | Vapor pressures and thermophysical properties of selected hexenols and recommended vapor pressure for hexan-1-ol |
| pvap | 0.03 | kPa | 283.15 | Vapor pressures and thermophysical properties of selected hexenols and recommended vapor pressure for hexan-1-ol |
| pvap | 0.03 | kPa | 283.15 | Vapor pressures and thermophysical properties of selected hexenols and recommended vapor pressure for hexan-1-ol |
| pvap | 0.03 | kPa | 283.15 | Vapor pressures and thermophysical properties of selected hexenols and recommended vapor pressure for hexan-1-ol |
| pvap | 0.05 | kPa | 288.15 | Vapor pressures and thermophysical properties of selected hexenols and recommended vapor pressure for hexan-1-ol |
| pvap | 0.05 | kPa | 288.15 | Vapor pressures and thermophysical properties of selected hexenols and recommended vapor pressure for hexan-1-ol |

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|------|------|-----|--------|--|
| pvap | 0.05 | kPa | 288.15 | Vapor pressures and thermophysical properties of selected hexenols and recommended vapor pressure for hexan-1-ol |
| pvap | 0.08 | kPa | 293.15 | Vapor pressures and thermophysical properties of selected hexenols and recommended vapor pressure for hexan-1-ol |
| pvap | 0.08 | kPa | 293.15 | Vapor pressures and thermophysical properties of selected hexenols and recommended vapor pressure for hexan-1-ol |
| pvap | 0.08 | kPa | 293.15 | Vapor pressures and thermophysical properties of selected hexenols and recommended vapor pressure for hexan-1-ol |
| pvap | 0.11 | kPa | 298.15 | Vapor pressures and thermophysical properties of selected hexenols and recommended vapor pressure for hexan-1-ol |
| pvap | 0.11 | kPa | 298.15 | Vapor pressures and thermophysical properties of selected hexenols and recommended vapor pressure for hexan-1-ol |
| pvap | 0.11 | kPa | 298.15 | Vapor pressures and thermophysical properties of selected hexenols and recommended vapor pressure for hexan-1-ol |

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|------|----------|-----|--------|--|
| pvap | 0.17 | kPa | 303.15 | Vapor pressures and thermophysical properties of selected hexenols and recommended vapor pressure for hexan-1-ol |
| pvap | 0.17 | kPa | 303.15 | Vapor pressures and thermophysical properties of selected hexenols and recommended vapor pressure for hexan-1-ol |
| pvap | 0.17 | kPa | 303.15 | Vapor pressures and thermophysical properties of selected hexenols and recommended vapor pressure for hexan-1-ol |
| pvap | 0.25 | kPa | 308.15 | Vapor pressures and thermophysical properties of selected hexenols and recommended vapor pressure for hexan-1-ol |
| pvap | 0.25 | kPa | 308.15 | Vapor pressures and thermophysical properties of selected hexenols and recommended vapor pressure for hexan-1-ol |
| pvap | 7.72e-04 | kPa | 248.15 | Vapor pressures and thermophysical properties of selected hexenols and recommended vapor pressure for hexan-1-ol |
| pvap | 7.68e-04 | kPa | 248.15 | Vapor pressures and thermophysical properties of selected hexenols and recommended vapor pressure for hexan-1-ol |

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|------|----------|-----|--------|--|
| pvap | 4.07e-04 | kPa | 243.15 | Vapor pressures and thermophysical properties of selected hexenols and recommended vapor pressure for hexan-1-ol |
| pvap | 4.06e-04 | kPa | 243.15 | Vapor pressures and thermophysical properties of selected hexenols and recommended vapor pressure for hexan-1-ol |
| pvap | 4.04e-04 | kPa | 243.15 | Vapor pressures and thermophysical properties of selected hexenols and recommended vapor pressure for hexan-1-ol |
| pvap | 2.11e-04 | kPa | 238.15 | Vapor pressures and thermophysical properties of selected hexenols and recommended vapor pressure for hexan-1-ol |
| pvap | 2.10e-04 | kPa | 238.15 | Vapor pressures and thermophysical properties of selected hexenols and recommended vapor pressure for hexan-1-ol |
| pvap | 0.25 | kPa | 308.15 | Vapor pressures and thermophysical properties of selected hexenols and recommended vapor pressure for hexan-1-ol |

Pressure Dependent Properties

| Property code | Value | Unit | Pressure [kPa] | Source |
|---------------|-------|------|----------------|--------|
|---------------|-------|------|----------------|--------|

Correlations

| Information | Value |
|-----------------------------|-------------------------------|
| Property code | pvap |
| Equation | $\ln(P_{vp}) = A + B/(T + C)$ |
| Coeff. A | 1.59012e+01 |
| Coeff. B | -4.18494e+03 |
| Coeff. C | -6.12880e+01 |
| Temperature range (K), min. | 327.78 |
| Temperature range (K), max. | 456.48 |

Sources

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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 |

| | |
|----------------|-----------------------------------|
| pvap: | Vapor pressure |
| rinpol: | Non-polar retention indices |
| ripol: | Polar retention indices |
| tb: | Normal Boiling Point Temperature |
| tbrp: | Boiling point at reduced pressure |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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<https://www.cheméo.com/cid/30-980-0/2-Hexen-1-ol-E.pdf>

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