

Hinesol

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|-----------------------------|---|
| Inchi: | InChI=1S/C15H26O/c1-11-6-5-7-12(2)15(11)9-8-13(10-15)14(3,4)16/h6,12-13,16H,5,7-1 |
| InchiKey: | ICWHTQRTTHCUHW-GZBFAFLISA-N |
| Formula: | C15H26O |
| SMILES: | CC1=CCCC(C)C12CCC(C(C)(C)O)C2 |
| Mol. weight [g/mol]: | 222.37 |
| CAS: | 23811-08-7 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|--------|----------------|
| gf | 21.67 | kJ/mol | Joback Method |
| hf | -351.74 | kJ/mol | Joback Method |
| hfus | 14.76 | kJ/mol | Joback Method |
| hvap | 64.38 | kJ/mol | Joback Method |
| log10ws | -4.39 | | Crippen Method |
| logp | 3.920 | | Crippen Method |
| mcvol | 202.060 | ml/mol | McGowan Method |
| pc | 2155.30 | kPa | Joback Method |
| rinpol | 1640.00 | | NIST Webbook |
| rinpol | 1636.00 | | NIST Webbook |
| rinpol | 1632.00 | | NIST Webbook |
| rinpol | 1659.00 | | NIST Webbook |
| rinpol | 1630.00 | | NIST Webbook |
| rinpol | 1636.00 | | NIST Webbook |
| rinpol | 1636.00 | | NIST Webbook |
| rinpol | 1638.00 | | NIST Webbook |
| rinpol | 1631.00 | | NIST Webbook |
| rinpol | 1631.00 | | NIST Webbook |
| rinpol | 1635.50 | | NIST Webbook |
| rinpol | 1639.00 | | NIST Webbook |
| rinpol | 1620.00 | | NIST Webbook |
| rinpol | 1635.00 | | NIST Webbook |
| rinpol | 1638.00 | | NIST Webbook |
| ripol | 2186.00 | | NIST Webbook |
| ripol | 2193.00 | | NIST Webbook |
| ripol | 2173.00 | | NIST Webbook |
| ripol | 2228.00 | | NIST Webbook |
| tb | 661.82 | K | Joback Method |

| | | | |
|----|--------|----------------------|---------------|
| tc | 874.07 | K | Joback Method |
| tf | 376.79 | K | Joback Method |
| vc | 0.749 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 598.13 | J/mol×K | 661.82 | Joback Method |
| cpg | 618.08 | J/mol×K | 697.19 | Joback Method |
| cpg | 636.92 | J/mol×K | 732.57 | Joback Method |
| cpg | 654.81 | J/mol×K | 767.94 | Joback Method |
| cpg | 671.91 | J/mol×K | 803.32 | Joback Method |
| cpg | 688.38 | J/mol×K | 838.69 | Joback Method |
| cpg | 704.35 | J/mol×K | 874.07 | Joback Method |

Sources

| | |
|------------------------|---|
| 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=C23811087&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| Crippen Method: | https://www.chemeo.com/doc/models/crippen_log10ws |

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 |

| | |
|---------------|----------------------------------|
| ripol: | Polar retention indices |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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