

7-Methyl-1,5-diazacyclotetradecane

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| Other names: | (S)-7-methyl-1,5-diazacyclotetradecane (S(-)-halicloresin) |
| Inchi: | InChI=1S/C13H28N2/c1-13-8-5-3-2-4-6-9-14-10-7-11-15-12-13/h13-15H,2-12H2,1H3 |
| InchiKey: | OFPMSWKVQNUTSL-UHFFFAOYSA-N |
| Formula: | C13H28N2 |
| SMILES: | CC1CCCCCCCCNCCCNC1 |
| Mol. weight [g/mol]: | 212.37 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|---------|----------------|
| gf | 161.65 | kJ/mol | Joback Method |
| hf | -230.99 | kJ/mol | Joback Method |
| hfus | 23.64 | kJ/mol | Joback Method |
| hvap | 59.85 | kJ/mol | Joback Method |
| log10ws | -3.30 | | Crippen Method |
| logp | 2.546 | | Crippen Method |
| mcvol | 203.130 | ml/mol | McGowan Method |
| pc | 2472.73 | kPa | Joback Method |
| rinpol | 1711.00 | | NIST Webbook |
| rinpol | 1711.00 | | NIST Webbook |
| tb | 647.65 | K | Joback Method |
| tc | 906.72 | K | Joback Method |
| tf | 425.55 | K | Joback Method |
| vc | 0.707 | m3/kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 577.29 | J/molxK | 647.65 | Joback Method |
| cpg | 607.04 | J/molxK | 690.83 | Joback Method |
| cpg | 634.61 | J/molxK | 734.01 | Joback Method |
| cpg | 659.91 | J/molxK | 777.18 | Joback Method |
| cpg | 682.88 | J/molxK | 820.36 | Joback Method |
| cpg | 703.44 | J/molxK | 863.54 | Joback Method |
| cpg | 721.52 | J/molxK | 906.72 | 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=U360451&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| Crippen Method: | https://www.cheméo.com/doc/models/crippen_log10ws |

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

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