# 2-(2-PHENYLVINYL)PYRIDINE, TRANS

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|---|---|
| **Other names:** | 2-(2-Phenylethenyl)pyridine, (E) |
| | Pyridine, 2-(2-phenylethenyl)-, (E)- |
| | Pyridine, trans-2-(2-phenylethenyl)- |
| | Pyridine, 2-styryl-, (trans) |
| **Inchi:** | InChI=1S/C13H11N/c1-2-6-12(7-3-1)9-10-13-8-4-5-11-14-13/h1-11H |
| **InchiKey:** | BIAWAXVRXKIUQB-MDZDMXLPSA-N |
| **Formula:** | C13H11N |
| **SMILES:** | C(=C\c1ccccn1)/c1ccccc1 |
| **Mol. weight [g/mol]:** | 181.24 |

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| hf | 288.85 | kJ/mol | Cheméo Relay (1.0) |
| hvap | 79.62 | kJ/mol | Cheméo Relay (1.0) |
| ie | 8.15 | eV | NIST Webbook |
| ie | 7.99 ± 0.05 | eV | NIST Webbook |
| log10ws | -2.87 | | Cheméo Relay (1.0) |
| logp | 3.252 | | Crippen Method |
| mcvol | 152.190 | ml/mol | McGowan Method |
| tb | 586.80 | K | Cheméo Relay (1.0) |
| tf | 336.62 | K | Cheméo Relay (1.0) |

## Pressure Dependent Properties

| Property code | Value | Unit | Pressure [kPa] | Source |
|---|---|---|---|---|
| tbrp | 467.20 | K | 1.90 | NIST Webbook |

## Sources

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|---|---|
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| **Crippen Method:** | https://www.chemeo.com/doc/models/crippen_log10ws |

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|---|---|
| **Cheméo Relay (1.0):** | |
| **Cheméo Relay (1.0, beta):** | |
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=C538498&Units=SI |
| **McGowan Method:** | http://link.springer.com/article/10.1007/BF02311772 |

# Legend

| | |
|---|---|
| **hf:** | Enthalpy of formation at standard conditions |
| **hvap:** | Enthalpy of vaporization at standard conditions |
| **ie:** | Ionization energy |
| **log10ws:** | Log10 of Water solubility in mol/l |
| **logp:** | Octanol/Water partition coefficient |
| **mcvol:** | McGowan's characteristic volume |
| **tb:** | Normal Boiling Point Temperature |
| **tbrp:** | Boiling point at reduced pressure |
| **tf:** | Normal melting (fusion) point |