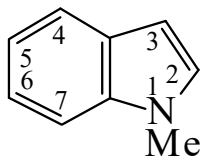




>>Entry Name: 1-Methyl-1*H*-indole, 9CI

Synonym(s): *N*-Methylindole



CAS Registry Number: 603-76-9

Molecular Formula: C<sub>9</sub>H<sub>9</sub>N

Molecular Weight: 131.177

Accurate Mass: 131.073499

Percentage Composition: C 82.41%; H 6.92%; N 10.68%

Physical Description: Yellow oil

Boiling Point: Bp<sub>720</sub> 240-241°. Bp<sub>2</sub> 70-75°

Solubility: Sol. EtOH, Et<sub>2</sub>O, C<sub>6</sub>H<sub>6</sub>, insol. H<sub>2</sub>O

Density: d<sup>0</sup> 1.0707

pKa Value: pK<sub>a</sub> -2.32 (25°, H<sub>2</sub>SO<sub>4</sub> aq.)

Other Data: Steam-volatile

Aldrich: 19398-4

Fluka: 67590

Sigma: M3144

>>Derivative: Picrate

Physical Description: Red prisms (Et<sub>2</sub>O)

Melting Point: Mp 150°

Solubility: V. sol. hot C<sub>6</sub>H<sub>6</sub>, mod. sol. Et<sub>2</sub>O

>>Derivative: Methyl perchlorate

Synonym(s): 1,1-Dimethylindolium perchlorate

Molecular Formula: C<sub>10</sub>H<sub>12</sub>ClNO<sub>4</sub>

Molecular Weight: 245.662

Accurate Mass: 245.045486

Percentage Composition: C 48.89%; H 4.92%; Cl 14.43%; N 5.70%; O 26.05%

Use/Importance: Methylating agent

Physical Description: Cryst. (MeOH/Et<sub>2</sub>O)

Melting Point: Mp 185-186 dec.°

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