



>>Entry Name: 5,6,7,8-Tetrahydro-2-naphthol, 8Cl

Synonym(s): 5,6,7,8-Tetrahydro-2-naphthalenol, 9Cl. *ar*-Tetrahydro- $\beta$ -naphthol. 6-Hydroxytetralin. *ar*-2-Tetralol

CAS Registry Number: 1125-78-6

Molecular Formula: C<sub>10</sub>H<sub>12</sub>O

Molecular Weight: 148.204

Accurate Mass: 148.088815

Percentage Composition: C 81.04%; H 8.16%; O 10.80%

Melting Point: Mp 61.5-62.5°

Boiling Point: Bp 275-276°. Bp<sub>2.5</sub> 120-122°

pKa Value: pK<sub>a</sub> 10.48 (25°)

Aldrich: 18045-9

Rare Chemicals Library: S52880-3

>>Derivative: Ac

Molecular Formula: C<sub>12</sub>H<sub>14</sub>O<sub>2</sub>

Molecular Weight: 190.241

Accurate Mass: 190.09938

Percentage Composition: C 75.76%; H 7.42%; O 16.82%

Physical Description: Viscous oil

Boiling Point: Bp<sub>14</sub> 158°

>>Derivative: Benzoyl

Molecular Formula: C<sub>17</sub>H<sub>16</sub>O<sub>2</sub>

Molecular Weight: 252.312

Accurate Mass: 252.11503

Percentage Composition: C 80.93%; H 6.39%; O 12.68%

Physical Description: Prisms

Melting Point: Mp 96°

Boiling Point: Bp<sub>10</sub> 220-222°

>>Derivative: Me ether

Synonym(s): 1,2,3,4-Tetrahydro-6-methoxynaphthalene. 6-Methoxytetralin

CAS Registry Number: 1730-48-9

Molecular Formula: C<sub>11</sub>H<sub>14</sub>O

Molecular Weight: 162.231

Accurate Mass: 162.104465

Percentage Composition: C 81.44%; H 8.70%; O 9.86%

Boiling Point: Bp<sub>11</sub> 129-131°

Aldrich: 18325-3

>>Derivative: Et ether

Synonym(s): 6-Ethoxy-1,2,3,4-tetrahydronaphthalene

Molecular Formula: C<sub>12</sub>H<sub>16</sub>O

Molecular Weight: 176.258

Accurate Mass: 176.120115

Percentage Composition: C 81.77%; H 9.15%; O 9.08%

Physical Description: Oil with pleasant odour

Boiling Point: Bp<sub>15</sub> 132-133°

#### References:

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*Aldrich Library of 13C and 1H FT NMR Spectra*, 1992, **2**, 265A, (*nmr*)

*Aldrich Library of FT-IR Spectra*, 1st edn., 1985, **1**, 1086C, (*ir*)

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