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>>Entry Name: **8-Amino-2-naphthalenesulfonic acid**, 9CI  
Synonym(s): 1-Naphthylamine-7-sulfonic acid. Cleve's O-acid

CAS Registry Number: 119-28-8

**Molecular Formula:** C<sub>10</sub>H<sub>9</sub>NO<sub>3</sub>S

**Molecular Weight:** 223.252

**Accurate Mass:** 223.030314

**Percentage Composition:** C 53.80%; H 4.06%; N 6.27%; O 21.50%; S 14.36%

**Use/Importance:** Dyestuff intermediate. Used as a 0.07-0.3% soln. in dil. AcOH for photometric detn. of NO<sub>2</sub><sup>(-)</sup>

**Physical Description:** Flakes + 1H<sub>2</sub>O

**Solubility:** Mod. sol. H<sub>2</sub>O

**pKa Value:** pK<sub>a</sub> 3.64 (25°)

**Aldrich:** 28461-0

**Fluka:** 70820

**Sigma:** A7782

>>Derivative: Na salt

**CAS Registry Number:** 6322-37-8

**Physical Description:** Needles + ½ H<sub>2</sub>O

**Solubility:** Sol. H<sub>2</sub>O

**pKa Value:** pK<sub>a1</sub> 2.9; pK<sub>a2</sub> 10.2 (25°)

>>Derivative: Amide

Synonym(s): 8-Amino-2-naphthalenesulfonamide

**CAS Registry Number:** 13261-52-4

**Molecular Formula:** C<sub>10</sub>H<sub>10</sub>N<sub>2</sub>O<sub>2</sub>S

**Molecular Weight:** 222.267

**Accurate Mass:** 222.046298

**Percentage Composition:** C 54.04%; H 4.53%; N 12.60%; O 14.40%; S 14.43%

**Use/Importance:** Acid-base fluorescent indicator (pH 1.9-3.9, colour change: no fluorescence → green; pH range 9.6-13.0, colour change: green → no fluorescence); used as 0.05% soln. in 90% EtOH

**Physical Description:** Needles + 1½H<sub>2</sub>O

**Melting Point:** Mp 181°

**References:**