



>>Entry Name: 2-Anthracenesulfonic acid, 9Cl

Synonym(s): Anthracene- $\beta$ -sulfonic acid

CAS Registry Number: 15100-53-5

Molecular Formula: C<sub>14</sub>H<sub>10</sub>O<sub>3</sub>S

Molecular Weight: 258.297

Accurate Mass: 258.035065

Percentage Composition: C 65.10%; H 3.90%; O 18.58%; S 12.41%

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

>>Derivative: Chloride

CAS Registry Number: 17407-98-6

Molecular Formula: C<sub>14</sub>H<sub>9</sub>ClO<sub>2</sub>S

Molecular Weight: 276.743

Accurate Mass: 276.001177

Percentage Composition: C 60.76%; H 3.28%; Cl 12.81%; O 11.56%; S 11.59%

Physical Description: Yellow cryst. (toluene)

Melting Point: Mp 122°

>>Derivative: Amide

Molecular Formula: C<sub>14</sub>H<sub>11</sub>NO<sub>2</sub>S

Molecular Weight: 257.312

Accurate Mass: 257.051049

Percentage Composition: C 65.35%; H 4.31%; N 5.44%; O 12.44%; S 12.46%

Physical Description: Cryst. (dioxan)

Melting Point: Mp 261°. Mp 287°

#### References:

Liebermann, C., *Annalen*, 1882, **212**, 57

Ferrero, P. *et al.*, *Helv. Chim. Acta*, 1928, **11**, 1153, (*synth*)