



>>Entry Name: **2,5-Diaminobenzenesulfonic acid**, 9CI, 8CI

Synonym(s): *p*-Phenylenediamine-2-sulfonic acid

CAS Registry Number: 88-45-9

Molecular Formula: C₆H₈N₂O₃S

Molecular Weight: 188.207

Accurate Mass: 188.025563

Percentage Composition: C 38.29%; H 4.28%; N 14.88%; O 25.50%; S 17.04%

Use/Importance: Monomer used in the synth. of water-sol. polyamides

Physical Description: Plates + 2H₂O (H₂O), needles (H₂O with trace of H₂SO₄)

Melting Point: Mp 298-300 dec.°

Aldrich: 15350-8

Fluka: 32776

Sigma: D4785

>>Derivative: Anilide

Molecular Formula: C₁₂H₁₃N₃O₂S

Molecular Weight: 263.32

Accurate Mass: 263.072847

Percentage Composition: C 54.74%; H 4.98%; N 15.96%; O 12.15%; S 12.18%

Physical Description: Leaflets (H₂O)

Melting Point: Mp 171°

References:

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **2**, 495D, (*ir*)

Aldrich Library of NMR Spectra, 2nd edn., 1983, **2**, 820B, (*nmr*)

Eger, E., *Ber.*, 1889, **22**, 848, (*synth*)

Fischer, P., *Ber.*, 1891, **24**, 3789, (*synth*)

Vandenberg, E.J. *et al.*, *J. Polym. Sci., Part A: Polym. Chem.*, 1989, **27**, 3745, (*polyamides*)