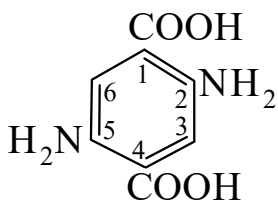




>>Entry Name: **2,5-Diamino-1,4-benzenedicarboxylic acid**, 9CI

Synonym(s): 2,5-Diaminoterephthalic acid, 8CI. Tereanilic acid



CAS Registry Number: 945-30-2

Molecular Formula: C₈H₈N₂O₄

Molecular Weight: 196.162

Accurate Mass: 196.048408

Percentage Composition: C 48.98%; H 4.11%; N 14.28%; O 32.62%

Physical Description: Greenish-yellow prisms

Solubility: Prac. insol. most org. solvs.

Other Data: Does not melt. Various derivs. are polymorphous

>>Derivative: Di-Me ester

Molecular Formula: C₁₀H₁₂N₂O₄

Molecular Weight: 224.216

Accurate Mass: 224.079708

Percentage Composition: C 53.57%; H 5.39%; N 12.49%; O 28.54%

Physical Description: Orange-red fluor. prisms

Melting Point: Mp 185°

>>Derivative: Di-Et ester

CAS Registry Number: 15403-46-0

Molecular Formula: C₁₂H₁₆N₂O₄

Molecular Weight: 252.269

Accurate Mass: 252.111008

Percentage Composition: C 57.13%; H 6.39%; N 11.10%; O 25.37%

Physical Description: Yellow or red fluor. needles (EtOH)

Melting Point: Mp 168°

Rare Chemicals Library: S1709-5

>>Derivative: Di-Ac

Molecular Formula: C₁₂H₁₂N₂O₆

Molecular Weight: 280.237

Accurate Mass: 280.069538

Percentage Composition: C 51.43%; H 4.32%; N 10.00%; O 34.26%

Physical Description: Tan needles (DMSO)

Melting Point: Mp 300 dec.°

>>Derivative: Di-Me ester, 2,5-*N*-di-Ac

Molecular Formula: C₁₄H₁₆N₂O₆

Molecular Weight: 308.29

Accurate Mass: 308.100838

Percentage Composition: C 54.54%; H 5.23%; N 9.09%; O 31.14%

Melting Point: Mp 284°

References:

Schroeter, G., *Ber.*, 1924, **57**, 2024, (*synth*)

Hojo, N. *et al.*, *Kogyo Kagaku Zasshi*, 1969, **72**, 1778, (*synth*)

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Mann, B.J. *et al.*, *J.C.S. Perkin 2*, 1981, 1577, (*cryst struct, polymorphism*)

Skibo, E.B. *et al.*, *J.O.C.*, 1988, **53**, 4209, (*synth, deriv, ir, pmr*)