



>>Entry Name: **1,2,4,5-Benzenetetramine**, 9CI

Synonym(s): 1,2,4,5-Tetraaminobenzene

CAS Registry Number: 3204-61-3

Molecular Formula: $C_6H_{10}N_4$

Molecular Weight: 138.172

Accurate Mass: 138.090546

Percentage Composition: C 52.16%; H 7.29%; N 40.55%

Other Data: Free base oxidises very readily in air. Forms ladder polymers with tetraketones, tetracarboxylic acids, dianhydrides and some 3,6-disubstituted 2,5-dichlorobenzoquinones

>>Derivative: Hydrochloride (1:4)

CAS Registry Number: 4506-66-5

Physical Description: Prisms, needles (H₂O)

Solubility: Sol. H₂O, spar. sol. HCl

Aldrich: 30506-5

Fluka: 86722

>>Derivative: Sulfate

Physical Description: Needles

Solubility: Mod. sol. H₂O

>>Derivative: 1,2,4,5-*N*-Tetra-Ac

Molecular Formula: $C_{14}H_{18}N_4O_4$

Molecular Weight: 306.321

Accurate Mass: 306.132806

Percentage Composition: C 54.89%; H 5.92%; N 18.29%; O 20.89%

Physical Description: Needles (AcOH)

Melting Point: Mp 285°

>>Derivative: *N*-Octa-Me

Synonym(s): 1,2,4,5-Tetrakis(dimethylamino)benzene

CAS Registry Number: 104779-70-6

Molecular Formula: $C_{14}H_{26}N_4$

Molecular Weight: 250.386

Accurate Mass: 250.215746

Percentage Composition: C 67.16%; H 10.47%; N 22.38%

Use/Importance: Forms a diamagnetic dication, v. strong electron donor

Physical Description: Cryst. by subl.

Melting Point: Mp 95°

Other Data: Readily oxid. in soln.

>>Derivative: *N*-Octa-Me, hydrobromide (1:2)

CAS Registry Number: 108794-72-5

Physical Description: Cryst. + 2H₂O (MeOH)

Melting Point: Mp 226-227°

>>Derivative: *N*-Octa-Me, tetrafluoroborate (1:2)

CAS Registry Number: 108794-71-4

Physical Description: Cryst. (MeOH)

Melting Point: Mp 290-291°

References: