



>>Entry Name: **2,5-Dibromo-1,4-benzenedicarboxylic acid**

Synonym(s): 2,5-Dibromoterephthalic acid

CAS Registry Number: 13731-82-3

Molecular Formula: $C_8H_4Br_2O_4$

Molecular Weight: 323.925

Accurate Mass: 321.887632

Percentage Composition: C 29.66%; H 1.24%; Br 49.33%; O 19.76%

Use/Importance: Polymerisation substrate

Physical Description: Leaflets (AcOH)

Melting Point: Mp 318-321°

>>Derivative: Di-Me ester

CAS Registry Number: 18014-00-1

Molecular Formula: $C_{10}H_8Br_2O_4$

Molecular Weight: 351.979

Accurate Mass: 349.918932

Percentage Composition: C 34.12%; H 2.29%; Br 45.40%; O 18.18%

Melting Point: Mp 145°

>>Derivative: Mono-Me ester

Molecular Formula: $C_9H_6Br_2O_4$

Molecular Weight: 337.952

Accurate Mass: 335.903282

Percentage Composition: C 31.99%; H 1.79%; Br 47.29%; O 18.94%

Melting Point: Mp 178°

>>Derivative: Di-Et ester

CAS Registry Number: 18013-97-3

Molecular Formula: $C_{12}H_{12}Br_2O_4$

Molecular Weight: 380.032

Accurate Mass: 377.950232

Percentage Composition: C 37.93%; H 3.18%; Br 42.05%; O 16.84%

Physical Description: Leaflets

Melting Point: Mp 124-125° (121°)

Boiling Point: Bp 335°

>>Derivative: Dichloride

Molecular Formula: $C_8H_2Br_2Cl_2O_2$

Molecular Weight: 360.816

Accurate Mass: 357.819856

Percentage Composition: C 26.63%; H 0.56%; Br 44.29%; Cl 19.65%; O 8.87%

Melting Point: Mp 80-81°

>>Derivative: Diamide

CAS Registry Number: 50880-39-2

Molecular Formula: $C_8H_6Br_2N_2O_2$

Molecular Weight: 321.956

Accurate Mass: 319.9196

Percentage Composition: C 29.85%; H 1.88%; Br 49.64%; N 8.70%; O 9.94%

Melting Point: Mp 300 dec.°

References:

Cachia, M. *et al.*, *Bull. Soc. Chim. Fr.*, 1958, 1418, (*synth*)

Ravens, D.A.S., *J.C.S.*, 1961, 4082, (*synth*)

Otto, J. *et al.*, *Pol. J. Chem. (Rocz. Chem.)*, 1967, **41**, 261

Blight, M.M. *et al.*, *J.C.S.(C)*, 1969, 552, (*synth*)