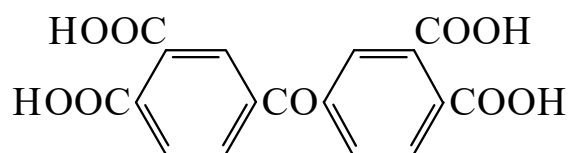




>>Entry Name: 3,3',4,4'-Benzophenonetetracarboxylic acid

Synonym(s): 4,4'-Carbonylbis(1,2-benzenedicarboxylic acid), 9CI. 4,4'-Carbonyldiphthalic acid, 8CI. Bis(3,4-dicarboxyphenyl)ketone



CAS Registry Number: 2479-49-4

Molecular Formula: C₁₇H₁₀O₉

Molecular Weight: 358.261

Accurate Mass: 358.032485

Percentage Composition: C 56.99%; H 2.81%; O 40.19%

Melting Point: Mp 220-221°

Other Data: Forms a dihydrate

Rare Chemicals Library: S42706-3

>>Derivative: Tetra-Me ester

CAS Registry Number: 6500-22-7

Molecular Formula: C₂₁H₁₈O₉

Molecular Weight: 414.368

Accurate Mass: 414.095085

Percentage Composition: C 60.87%; H 4.38%; O 34.75%

Melting Point: Mp 91.6-93.5°

>>Derivative: Tetraamide

Synonym(s): 4,4'-Carbonylbisphthalamide

CAS Registry Number: 6097-11-6

Molecular Formula: C₁₇H₁₄N₄O₅

Molecular Weight: 354.321

Accurate Mass: 354.096421

Percentage Composition: C 57.63%; H 3.98%; N 15.81%; O 22.58%

Physical Description: Cryst. (DMSO)

Melting Point: Mp 168-169°

>>Derivative: Dianhydride

Synonym(s): 5,5'-Carbonylbis(1,3-isobenzofurandione), 9CI. 4,4'-Carbonyldiphthalic anhydride, 8CI. **BTDA**‡

CAS Registry Number: 2421-28-5

Molecular Formula: C₁₇H₆O₇

Molecular Weight: 322.23

Accurate Mass: 322.011355

Percentage Composition: C 63.37%; H 1.88%; O 34.76%

Use/Importance: Monomer for high-performance polymers

Physical Description: Cryst. (C₆H₆ or Me₂CO)

Melting Point: Mp 225.5° (218.5-219.5°)

Aldrich: B975-0

Fluka: 12757

>>Derivative: Diimide

Synonym(s): 5,5'-Carbonylbis-1*H*-isoindole-1,3(2*H*)-dione, 9CI

CAS Registry Number: 6097-10-5

Molecular Formula: C₁₇H₈N₂O₅

Molecular Weight: 320.261

Accurate Mass: 320.043323

Percentage Composition: C 63.76%; H 2.52%; N 8.75%; O 24.98%

Boiling Point: Subl. 360°

References: