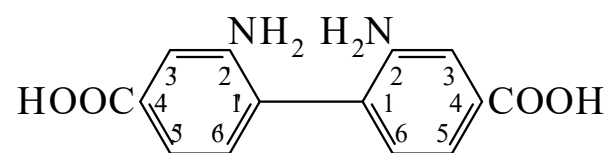




>>Entry Name: 2,2'-Diamino-4,4'-biphenyldicarboxylic acid

Synonym(s): 2,2'-Diamino-4,4'-diphenic acid



CAS Registry Number: 41738-56-1

Molecular Formula: C<sub>14</sub>H<sub>12</sub>N<sub>2</sub>O<sub>4</sub>

Molecular Weight: 272.26

Accurate Mass: 272.079708

Percentage Composition: C 61.76%; H 4.44%; N 10.29%; O 23.51%

Physical Description: Yellow platelets (EtOH or H<sub>2</sub>O)

Melting Point: Mp 307-309°

>>Derivative: Di-Me ester

CAS Registry Number: 23933-57-5

Molecular Formula: C<sub>16</sub>H<sub>16</sub>N<sub>2</sub>O<sub>4</sub>

Molecular Weight: 300.313

Accurate Mass: 300.111008

Percentage Composition: C 63.99%; H 5.37%; N 9.33%; O 21.31%

Melting Point: Mp 174-176°

>>Derivative: Di-Et ester

Molecular Formula: C<sub>18</sub>H<sub>20</sub>N<sub>2</sub>O<sub>4</sub>

Molecular Weight: 328.367

Accurate Mass: 328.142308

Percentage Composition: C 65.84%; H 6.14%; N 8.53%; O 19.49%

Physical Description: Needles or pale-yellow scales

Melting Point: Mp 99-100°. Mp 112-115° (dimorph.)

>>Derivative: N,N'-Di-Ac

Molecular Formula: C<sub>18</sub>H<sub>16</sub>N<sub>2</sub>O<sub>6</sub>

Molecular Weight: 356.334

Accurate Mass: 356.100838

Percentage Composition: C 60.67%; H 4.53%; N 7.86%; O 26.94%

Melting Point: Mp 250°

#### References:

Jakubowski, Z. *et al.*, *Ber.*, 1909, **42**, 634

Adams, R. *et al.*, *J.A.C.S.*, 1933, **55**, 1649

Cheung King Ling, C., *J.C.S.*, 1964, 1825