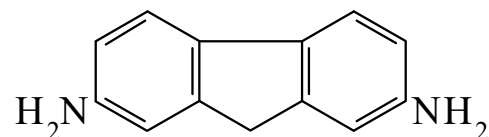




>>Entry Name: **9*H*-Fluorene-2,7-diamine**, 9Cl

Synonym(s): 2,7-Diaminofluorene



CAS Registry Number: 525-64-4

Related CAS Registry Numbers(s): 13548-69-1

Molecular Formula: C<sub>13</sub>H<sub>12</sub>N<sub>2</sub>

Molecular Weight: 196.251

Accurate Mass: 196.100048

Percentage Composition: C 79.56%; H 6.16%; N 14.27%

Use/Importance: Used as 1mM soln. in conc. H<sub>2</sub>SO<sub>4</sub> or in dil. HCl for photometric detn. of NO<sub>3</sub><sup>(-)</sup> and NO<sub>2</sub><sup>(-)</sup>. Monomer for polyamides and polyimides

Physical Description: Plates (C<sub>6</sub>H<sub>6</sub> or Et<sub>2</sub>O)

Melting Point: Mp 164-165°

Solubility: Sol. acids

pKa Value: pK<sub>a</sub> 4.97 (70% EtOH)

Hazard & Toxicity: Exp. carcinogen

Aldrich: D1710-6

Fluka: 32980

Sigma: D9251

>>Derivative: 2-*N*-Ac

CAS Registry Number: 6957-50-2

Molecular Formula: C<sub>15</sub>H<sub>14</sub>N<sub>2</sub>O

Molecular Weight: 238.288

Accurate Mass: 238.110613

Percentage Composition: C 75.61%; H 5.92%; N 11.76%; O 6.71%

Melting Point: Mp 200-202°

Rare Chemicals Library: S35701-4

>>Derivative: Di-*N*-Ac

CAS Registry Number: 304-28-9

Molecular Formula: C<sub>17</sub>H<sub>16</sub>N<sub>2</sub>O<sub>2</sub>

Molecular Weight: 280.326

Accurate Mass: 280.121178

Percentage Composition: C 72.84%; H 5.75%; N 9.99%; O 11.41%

Physical Description: Plates (C<sub>6</sub>H<sub>6</sub>)

Melting Point: Mp 281°

Rare Chemicals Library: S75538-9

>>Derivative: Tri-*N*-Ac

Molecular Formula: C<sub>19</sub>H<sub>18</sub>N<sub>2</sub>O<sub>3</sub>

Molecular Weight: 322.363

Accurate Mass: 322.131743

Percentage Composition: C 70.79%; H 5.63%; N 8.69%; O 14.89%

Physical Description: Needles (C<sub>6</sub>H<sub>6</sub>)

Melting Point: Mp 234°

>>Derivative: Tetra-*N*-Ac

Molecular Formula: C<sub>21</sub>H<sub>20</sub>N<sub>2</sub>O<sub>4</sub>

Molecular Weight: 364.4

Accurate Mass: 364.142308

Percentage Composition: C 69.22%; H 5.53%; N 7.69%; O 17.56%

Physical Description: Needles (petrol)

Melting Point: Mp 179-181°

References:

, NO<sub>3</sub><sup>(-)</sup>)