**M-PHENYLENE DIAMINE FOR SYNTHESIS**

<table>
<thead>
<tr>
<th>PRODUCT CODE</th>
<th>024666</th>
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<tbody>
<tr>
<td>SYNONYMS</td>
<td>(1,3-Phenylenediamine)</td>
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<tr>
<td>C.I. NO.</td>
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<tr>
<td>CASR NO.</td>
<td>(108-45-2)</td>
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<tr>
<td>ATOMIC OR MOLECULAR FORMULA</td>
<td>C₆H₈N₂</td>
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<tr>
<td>ATOMIC OR MOLECULAR WEIGHT</td>
<td>108.14</td>
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**PROPERTIES**

- Colourless needles becoming red in air. Usually in the form of stable hydrochloride.

\[ \text{C}_6\text{H}_8\text{N}_2 \]

### PARAMETER | LIMIT
---|---
Description | White to grey crystals/flakes darken in storage.
Solubility | 10% solution in water is clear and bright.
Minimum assay (Non-aqueous) | 98.0%
Melting Point | 61° - 64°C

### MAXIMUM LIMIT OF IMPURITY

- Sulphated Ash | 0.1%

**Note(s):** Assay (if applicable) method mentioned.

**DANGER**

- Hazard statements: Toxic if inhaled. Toxic in contact with skin. Toxic if swallowed. Causes serious eye irritation. May cause allergic skin reaction. Very toxic to aquatic life with long lasting effects.

**Precautionary statements**

- Prevention: Avoid breathing dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well ventilated area. Wear protective gloves/clothing. Wash hands thoroughly after handling. Contaminated clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Do not breathe dust/fume/gas/mist/vapours/spray.

- Response:
  - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Keep container tightly closed. If eye irritation persists, get medical advice/attention. If skin irritation or rash occurs, seek medical advice/attention. Wear eye/face protection. Wash contaminated clothing before reuse. If IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. Call a POISON CENTER or doctor/physician if you feel unwell. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Specific treatment: refer to Label or SDS. Remove/Take off immediately all contaminated clothing. IF ON SKIN: Gently wash with plenty of soap and water. Wash/Decontaminate removed clothing before reuse.

**Disposal:** Dissolve the chemical in dilute acid and neutralize the excess acid with sodium carbonate and run to the normal waste with large amount of water. Any sand used to cover spillage should be thoroughly washed with water before disposal as normal waste. Alternatively the neutralized solution can be put in a container and disposed off.

**Hazard Pictogram(s):**

- Acute toxicity
- Aquatic environment