



|                         |   |   |
|-------------------------|---|---|
| <b>Name of Material</b> | : | <b>Acid - Glacial Acetic Acid [E 260]</b> |
| Manufacturer            | : | NA  |
| Supplier                | : | NA  |
| Country of Origin       | : | NA  |
| Batch/Lot No.           | : | NA  |
| MFG Date                | : | NA  |
| EXP Date                | : | NA  |
| Challan No.             | : | NA  |
| QA Ref. No.             | : | NA  |
| QRN Ref. No.            | : | NA  |
| Qty. Supplied           | : | NA  |
| Date of Received        | : | NA  |
| Date of Testing         | : | NA  |
| Date of Reporting       | : | NA  |

| SN | Description                  | Specification  | Results |
|----|------------------------------|--|---------|
| 01 | Physical appearance          | A clear, colorless volatile solution with pungent odor                                 |         |
| 02 | Identification               | Must be comply to BP   |         |
| 03 | Solubility                   | Miscible with ethanol (96%), ether, glycerin, water and other fixed and volatile oils. |         |
| 04 | Reducing substances          | Must be comply to BP   |         |
| 05 | Residue evaporation in 20 gm | Not more than 2.0 mg   |         |
| 06 | Assay                        | 99.00 % - 100.50 %   |         |

|                |  |
|----------------|--|
| <b>Remarks</b> |  |
|----------------|--|

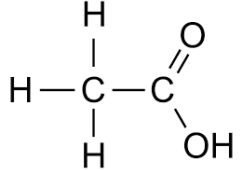
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|-----------------|--|----------|--|----------|
| <b>Decision</b> |  | Accepted |  | Rejected |
|-----------------|--|----------|--|----------|

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**Tested By**

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**Checked By**

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**Approved By**

**Other Related Information**

| Name of Material         | Acid - Glacial Acetic Acid [E 260]   |
|--------------------------|--|
| Others Name              | Acetic Acid<br>Ethanoic Acid<br>Vinegar [4% Acetic Acid];  |
| Chemical Composition     | CH <sub>3</sub> COOH<br>C <sub>2</sub> H <sub>4</sub> O <sub>2</sub><br>  |
| Molar Mass               | 60.052 gm/mol  |
| Density                  | 1.049 gm/cm <sup>3</sup> [Liquid]<br>1.27 gm/cm <sup>3</sup> [Solid]   |
| Melting Point            | 16 – 17 C  |
| Boiling Point            | 118 – 119 C  |
| Others Information       | <ul style="list-style-type: none"> <li>- Acetic acid that contains a very low amount of water [less than 1%] is called “Anhydrous Acetic Acid or Glacial Acetic Acid”.</li> <li>- The reason is calling Glacial is because, it solidifies into solid acetic acid crystals at a cooler temperature as 16.7 C.</li> <li>- Acetic acid is produced industrially both Synthetically &amp; Bacterial Fermentation.</li> <li>- Although acetic acid is considered a weak acid, its safe enough to drink in vinegar form.</li> <li>- But acetic acid is corrosive and can cause skin injury.</li> </ul> |
| Function in Food Process | <ul style="list-style-type: none"> <li>- Acetic acid is used in pickle production.</li> <li>- Provides an acidic taste and flavor in food.</li> <li>- Vinegar is used for food stuff preservation [Vinegar is 4% Acetic Acid]. Vinegar is used directly as a condiment and in the pickling of vegetables and other foods.</li> <li>- Table Vinegar tends to be more diluted [4% - 8% Acetic Acid].</li> </ul>  |