



" clyzo " - Monograph Comparison



AS PER CURRENT USP 2022/EP11/JP18

| | | | | |
|--------------------------|--|--|--------------------|--------------------|
| Product Name | Hydrochloric Acid 37% according to purity requirements of USP/NF | | Issue Date | July-23 |
| Product Code | 240107 | | Prepared by | Sr. Tech Lead |
| CAS NO. | 7647-01-0 | | Reviewed by | Manager Technical |
| Manufacturer Name | CG Chemikalein GmbH & Co KG | | Version no. | CLYZO/CG/240107/01 |

| Sr. No. | Test | Manufacturer COA | Pharmacopeial Specifications | | |
|---------|---------------------------------|---------------------------|---|---|--|
| | | Complies USP, BP, Ph. Eur | USP 2022 | EP Version 11.0 | JP 18 |
| 1 | Description | Colorless liquid | Colorless, fuming liquid having a pungent odor. It ceases to fume when it is diluted with 2 volumes of water. Specific gravity is about 1.18 | Clear, colourless, fuming liquid. Relative density is about 1.18. | Colorless liquid having a pungent odor. It is fuming but ceases to fume when it is diluted with 2 volumes of water. Specific gravity @ 200C is about 1.18. |
| 2 | Solubility | Miscible with water | Not mentioned | Miscible with water. | Not mentioned |
| 3 | Identification 1 | Should comply the test | After addition of silver nitrate TS, should develop a white, curdy precipitate which is insoluble in nitric acid but is soluble in a slight excess of 6 N NH4OH | Should comply by a curdled, white precipitate is formed which dissolves in ammonia | 1. When mixed and heated with H2SO4 & KMnO4 should evolve an odor of chlorine 2. After addition of AgNO3 TS & dilute HNO3, should yield a white precipitate which is not soluble in dilute HNO3 but when excess of ammonia is added, dissolves |
| 4 | Identification 2 | Should comply the test | Not mentioned | Should comply with assay test | Remarkable white smoke should evolve when brought near Ammonia TS |
| 5 | Colour of Solution | Not mentioned | Not mentioned | Sample solution should be clear and colourless | Not mentioned |
| 6 | Bromide or iodide | Should comply the test | The chloroform should remain free from even a transient yellow, orange, or violet color. | Not mentioned | The chloroform layer should remain colorless. |
| 7 | Bromine or Chlorine | Not mentioned | The chloroform should remain free from any violet color for at least 1 min. | Not mentioned | chloroform layer should remain free from a purple color. |
| 8 | Residue on Ignition/evaporation | NMT 0.008% | NMT 0.008% | NMT 0.001% | NMT 0.001% |
| 9 | Arsenic | Not mentioned | Not mentioned | Not mentioned | NMT 1ppm |
| 10 | Mercury | Not mentioned | Not mentioned | Not mentioned | NMT 0.04 ppm |
| 11 | Heavy metals | Not mentioned | Not mentioned | Not mentioned | NMT 5 ppm |
| 12 | Sulfate (SO4) | Should comply the test | Neither turbidity nor precipitate should appear within 1 hour | NMT 20ppm | No Turbidity should be produced |
| 13 | Sulfite (SO3) | Should comply the test | Neither turbidity nor decolorization of the iodine should occur. | Not mentioned | The color of Iodine TS should not disappear. |
| 14 | Free chloride/Chloride | Should comply the test | Not mentioned | NMT 4 ppm | Not mentioned |
| 15 | Bacterial Endotoxins | NMT 10 IU/g | Not mentioned | Not mentioned | Not mentioned |
| 16 | Assay (w/w) | Between 36.5% and 38.0% | Between 36.5% and 38.0% | Between 35.0% and 39.0% | Between 35.0% and 38.0% |
| | Storage | Not mentioned | Preserve in tight containers. | In a stoppered container made of glass or another inert material, at a temperature not exceeding 30 °C. | Tight containers |

Note - If you need any additional testing, you may use our Additional Testing Feature on the product page or contact your Clyzo representative.

Disclaimer - The information above is solely for your consideration. We do not recommend or affirm the suitability for any specific end use. We suggest the users should research & verify the specifications in accordance with their intended usage.