

## TRIMETHYLAMINE HYDROCHLORIDE (TMAHCl)

| Specifications                | Value                                | Test Method        |
|-------------------------------|--------------------------------------|--------------------|
| Trimethylamine Hydrochloride  | 68-68.5% (w/w)                       | IC+Titrimetric     |
| Monomethylamine Hydrochloride | Max. 0.01% (w/w)                     | IC                 |
| Dimethylamine Hydrochloride   | Max. 0.0125% (w/w)                   | IC                 |
| Ammonium Chloride             | Max. 0.005% (w/w)                    | IC                 |
| Water                         | 28.97-30% (w/w)                      | Calculated         |
| Iron                          | Max. 1ppm                            | Colorimetric       |
| pH                            | 6.5-6.6                              | pH Meter           |
| Color                         | Max. 15 APHA                         | Spektrophotometric |
| Density (20°C)                | 1.026-1.028gr/cm <sup>3</sup>        | Densitometer       |
| Appearance                    | Colorless-pale yellow clear solution | Visual             |

### PRODUCT DESCRIPTION

**Appearance:** Colorless-pale yellow clear solution

- It has amine smell.
- Totally soluble in water.
- Contact with the heat and fire may release hydrochloric acid and trimethylamine gas which are toxic.
- **Possibility of hazardous reactions:** Acids, acid chlorides, acid anhydrides, oxidizers and bases.

### PACKAGING, STORAGE & SHELF LIFE

PVC coated polyester material, rubber lined carbon-steel and polyethylene material is used for storage. When stainless steel is used for transferring the product Argon gas is used as a buffering gas.

For storing the product, rubber lined carbon-steel, FRP,PVC and plastic type tanks can be used. Store in dry and wellventilated area, away from bases. Storage tanks have to be away from direct sunlight and heat resources. Product cannot be stored with explosive, reactive and oxidizing materials. Product can be stored with flammable, toxic and hazardous materials.

Shelf Life: 1 years

### SAFETY & PRECAUTIONS

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Avoid from direct contact with skin and eye. Use goggle type safety glasses. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. Do not use contact lenses. Product causes skin and eye irritation.

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