

MILES® HYDROCHLORIC ACID

Muriatic Acid

Product Data Sheet**PRODUCT DESCRIPTION**

Miles® Hydrochloric Acid (also called muriatic acid) is a clear, colorless to slightly yellow solution of hydrogen chloride in water with a sharp, pungent odor. Technical grade is typically supplied at about 31–32%.

It is used for acidizing and descaling, metal pickling, pH control and neutralization, and chemical processing. It is highly corrosive and gives off irritating fumes, so use it only with proper ventilation and protective equipment.

Chemical Name: Hydrochloric acid (30–32 wt%)

CAS Number: 7647-01-0

Chemical Formula: HCl

Molecular Weight: 36.46 g/mol

TYPICAL APPLICATIONS

Miles® Hydrochloric Acid is suitable for use in applications including:

- Acidizing and descaling
- Metal pickling
- pH control and neutralization
- Chemical processing

TYPICAL PHYSICAL PROPERTIES

Property	Typical Value
Appearance	Clear, colorless to slightly yellow liquid; pungent odor
Concentration (Technical Grade)	30–32 wt%
Specific Gravity	approx. 1.155 (specification range 1.15–1.20 at 20°C)
Vapor Pressure	approx. 20 mmHg at 20°C
pH	Below 0
Water Solubility	Miscible
Transport	UN1789, Class 8 (corrosive), Packing Group II

The values shown are typical physical properties and are not intended to constitute product specifications.

PRODUCT FEATURES

- Strong mineral acid for rapid descaling and neutralization
- Consistent assay of 30–32% by weight
- Fully miscible with water
- Compatible with standard acid-resistant dosing systems

STORAGE & HANDLING

Store in tightly closed containers made of acid-resistant materials in a cool, well-ventilated area; corrosive fumes can degrade unsuitable containers. Keep away from bases, oxidizers and metals.

Corrosive (UN1789, Class 8, Packing Group II). Use only with adequate ventilation and appropriate protective equipment. Consult the applicable Miles® Safety Data Sheet (SDS) before handling, storing, or using this product.

AVAILABLE PACKAGING

- 530-Pound Drums

Packaging availability may vary. Contact Miles Lubricants LLC for current packaging and minimum-order requirements.

IMPORTANT

Miles® Hydrochloric Acid is intended for industrial applications. It should not be represented or used as USP, pharmaceutical, food, cosmetic, or personal-care grade unless the specific product supplied is independently certified for those applications.

PRODUCT INFORMATION

Miles Lubricants LLC

Industrial Lubricants, Chemicals & Specialty Fluids

Product: Miles® Hydrochloric Acid (530 lb Drum)

CAS No.: 7647-01-0

For product availability, technical information, and Safety Data Sheets, contact Miles Lubricants LLC.

DISCLAIMER

The information and typical properties contained in this Product Data Sheet are provided for general informational purposes and are believed to be accurate at the time of publication. Typical values are not specifications or guaranteed properties. Product users are responsible for determining the suitability, compatibility, safety, and regulatory compliance of the product for their particular application. Please consult the applicable Safety Data Sheet before use.