

Chemical Structure and Identity



Specifications

Sr. No.	Characteristics	Unit	Standard Value
1	Assay	%	99.8 Min.
2	Oxygen	ppm	100 Max.
3	Nitrogen	%	0.1 Max.
4	Mercury	ppm	Nil*
5	Alkalinity	ppm	Not detectable

CAS No.

1333-74-0

EINECS No.

NA

Technology

AKCC JAPAN

UN No

1049

Class

2

Packing Group

Not Applicable

State

Gas

Commercial Trade Name

Not Pertinent

Synonyms

Liquid Hydrogen, Para Hydrogen, Hydrogen (Compressed)

Chemical Formula

H₂

Molecular Weight

1.0079

Handling & Safety

- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
- Use only non-sparking tools.
- Use only explosion-proof equipment. Wear leather safety gloves and safety shoes when handling cylinders.
- Protect cylinders from physical damage; do not drag, roll, slide or drop.
- While moving cylinder, always keep in place removable valve cover.
- Never attempt to lift a cylinder by its cap; the cap is intended solely to protect the valve.
- When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport cylinders.
- Never insert an object (e.g. wrench, screwdriver, pry bar) into cap openings; doing so may damage the valve and cause a leak.
- Use an adjustable strap wrench to remove over-tight or rusted caps. Slowly open the valve.
- If the valve is hard to open, discontinue use and contact your supplier.
- Close the container valve after each use; keep closed even when empty.

- Never apply flame or localized heat directly to any part of the container.
- High temperatures may damage the container and could cause the pressure relief device to fail prematurely, venting the container contents

Application

Hydrogen Peroxide
As a fuel
Catalytic Reduction
Hydrochloric Acid
Ammonia Synthesis
Hydrogen-Fuel Cells
Edible Oils and Non-Edible Oils
Petro-Products
Gas Cutting and Plasma Cutting

Package Unit

Cylinder

Contact

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