



NORTH METAL & CHEMICAL COMPANY

World Class Molybdenum & Tungsten Compounds

Since 1921

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Amines

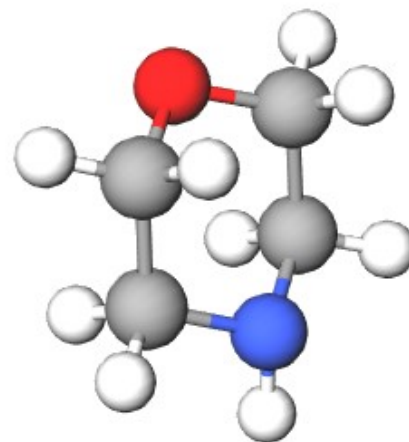
Technical Data Sheet

MORPHOLINE

Morpholine is a colorless, hygroscopic liquid free of suspended matter. It is fully miscible with water and almost all common organic solvents, and slightly soluble in aliphatic hydrocarbons. Morpholine is generally used as a chemical intermediate in corrosion inhibitors for steam boiler systems, but also has uses in pharmaceuticals, textiles, rubbers, catalysts, plasticizers, dyes, and agricultural and photographic chemicals. CAS: 110-91-8

Technical Specifications: C₄H₉NO

Appearance	Colorless, transparent liquid
Morpholine, % weight	99.0 min.
Moisture (Water %)	0.03 max
Specific Gravity @ 20°C	1.003
Flash Point, °C	31°C
Freezing Point, °C	-5°C
Weight/gallon, lbs.	8.4
Molecular Weight	87.1
Color APHA	15.0 Max



Packaging: Available in 441 lb. non-returnable steel drums.
Shelf Life: At least three years when properly stored in unopened container.
Safety: Morpholine is corrosive to the skin and eyes. Inhalation of vapors may irritate the respiratory tract. Flammable. Refer to MSDS for additional precautions.



Morpholine - Technical Data Sheet