



NORTH METAL & CHEMICAL COMPANY

World Class Molybdenum & Tungsten Compounds

Since 1921

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Amines

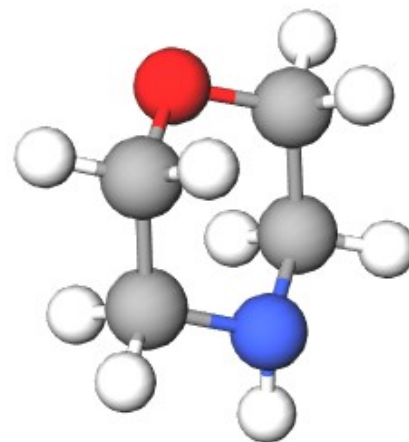
Technical Data Sheet

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 %) | 0.3 max |
| Specific Gravity @ 20°C | 0.990 - 1.125 |
| 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