

DIMETHYL FORMAMIDE

CAS Number: 68-12-2

Other Names: N,N-Dimethylformamide; N,N-Dimethylmethanamide; DMF

Formula: C_3H_7NO or $HCON(CH_3)_2$

PRODUCT INTRODUCTION

Dimethylformamide appears as a water-white liquid with a faint fishy odor having chemical formula $HCON(CH_3)_2$. It is widely used in industries as a solvent, an additive, or an intermediate because of its extensive miscibility with water and most common organic solvents.

PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear Liquid
Color (APHA)	3.0
pH at 25°C in 20% solution	7.0
Conductivity in 20% water @ 250C	0.80
Dimethyl Formamide Content (%wt)	99.98
Water Content (%w)	0.005
Methanol Content (%wt)	< 0.001
Acidity as Formic Acid (mg/kg)	4.0
Base as DMA (mg/kg)	1.0
Iron ppm	0.010

APPLICATION

- Dimethylformamide is commonly used as a solvent.
- It is used as a reagent in Bouveault aldehyde synthesis and also in Vilsmeier-Haack reaction.
- It acts as a catalyst in the synthesis of acyl chlorides.
- It is used for separating and refining crude from olefin gas.
- DMF along with methylene chloride acts as a remover of varnish or lacquers.

- It is also used in the manufacture of adhesives, fibers and films.
- DMF penetrates most plastics and makes them swell. Because of this property DMF is suitable for solid phase peptide synthesis and as a component of paint strippers.

PACKAGING OPTIONS

Drums
