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Methylal

GENERAL DESCRIPTION

Methylal is a clear colorless flammable liquid with a low boiling point, low viscosity and an excellent dissolving power. It has a chloroform-like odor and a pungent taste. It is the dimethyl acetal of formaldehyde. Methylal is soluble in three parts water and miscible with most common organic solvents. It is primarily used as a solvent and in the manufacture of perfumes, resins, adhesives, paint strippers and protective coatings. Another useful application of dimethoxymethane is to protect alcohols with a MOM ether in organic synthesis.

SPECIFICATIONS

Appearance :	Colorless transparent liquid
Purity, %	≥99.95%
Moisture%	≤0.05%
methanol %	≤0.05%
methanal %	≤0.0001
Chloride, no visible turbidity (indicates about 3 ppm)	Pass
Particulates / solids (visually clean to pass)	Pass

PROPERTIES

Methylal

CAS Number	:	109-87-5
Symbols	:	F
Phrases R	:	11
Concentration	:	99.9.00 %

Appearance: Liquefied
Color/Colour: colorless/colourless
Odor/Odour: ethereal
Molecular Structure:

Formula: C₃H₈O₂

Molecular Weight: 76.09

Synonyms:

2,4-Dioxapentane; Anesthenyl; Bis(methoxy)methane; Dimethoxymethane; Dimethyl formal; Formal; Formaldehyde dimethyl acetal; Formaldehyde methyl ketal; Methoxymethyl methylether; Methylal; Methylene dimethyl ether.

EINECS: 203-714-2

Density: 0.8560 g/cm³

Melting Point: -104.8°C

Boiling Point: 45.238 °C at 760 mmHg

Vapor Pressure: 43.99kpa/20 °C

Flash point: -17.8 °C

Explosion Limits, Lower:1.60 vol % Upper: 17.60 vol %