



# Acetone Derivatives

## Methyl Isobutyl Ketone & Methyl Isobutyl Carbinol

### KEY FEATURES:

- Miscible with most organic solvents
- Medium evaporation range
- Colorless stable organic liquid





# Acetone Derivatives

## Methyl Isobutyl Ketone (MIBK)

### PRODUCT DESCRIPTION

**Methyl isobutyl ketone (MIBK)** is a colorless liquid exhibiting a faint ketonic and camphor-like odor. It is one of the most useful among the acetone derivative solvents and has a medium evaporation rate.

**MIBK** is stable and does not polymerize. **MIBK** is highly compatible with a variety of organic reagents and is a good solvent for a wide range of industrial materials.

### APPLICATIONS

#### Methyl isobutyl ketone (MIBK)

End uses for **MIBK** include coating solvents, rare-metal extraction, process solvents for adhesives and as a chemical intermediate. **MIBK** can also be used in oil and gas applications.

## Methyl Isobutyl Carbinol (MIBC)

### PRODUCT DESCRIPTION

**Methyl isobutyl carbinol (MIBC)** is a liquid derivative of acetone with a pungent alcohol odor. It has limited solubility in water, but is miscible with most organic solvents.

### APPLICATIONS

#### Methyl isobutyl carbinol (MIBC)

The main uses are as an ore floating agent and a lubricant oil additive. Further end uses of **MIBC** include use as a latent solvent in the production of nitrocellulose lacquers and frothers, talc processing and surfactants; with aromatic diluents as a solvent for ethyl cellulose, urea-formaldehyde and alkyd resins; and as a raw material in the manufacturing of methyl amyl sebacate and methyl amyl phthalate, which are used as plasticizers.

### TYPICAL PROPERTIES

	Unit	MIBK	MIBC
Molar mass	g/mol	100.2	102.2
Melting temperature	°C	-84	-90
Freezing point	°C	< -50	< -50
Density at 20°C	g/cm <sup>3</sup>	0.801	0.808
Refractive index n <sub>D</sub> at 20°C (DIN 51 423)		1.3958	1.4112
Solubility in water at 20°C	g/100 g of water	1.95	1.82
Evaporation rate (n-BuAc = 1)		1.54	0.26