Acetone Derivatives
Methyl Isobutyl Ketone & Methyl Isobutyl Carbinol

KEY FEATURES:
• Miscible with most organic solvents
• Medium evaporation range
• Colorless stable organic liquid

C₆H₁₂O | C₆H₁₄O
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**

<table>
<thead>
<tr>
<th>Property</th>
<th>Unit</th>
<th>MIBK</th>
<th>MIBC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Molar mass</td>
<td>g/mol</td>
<td>100.2</td>
<td>102.2</td>
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<tr>
<td>Melting temperature</td>
<td>°C</td>
<td>-84</td>
<td>-90</td>
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<tr>
<td>Freezing point</td>
<td>°C</td>
<td>&lt; -50</td>
<td>&lt; -50</td>
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<tr>
<td>Density at 20°C</td>
<td>g/cm³</td>
<td>0.801</td>
<td>0.808</td>
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<tr>
<td>Refractive index ( n_d ) at 20°C (DIN 51 423)</td>
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<td>1.3958</td>
<td>1.4112</td>
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<td>Solubility in water at 20°C</td>
<td>g/100 g of water</td>
<td>1.95</td>
<td>1.82</td>
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<tr>
<td>Evaporation rate ( (n\text{-BuAc} = 1) )</td>
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<td>1.54</td>
<td>0.26</td>
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