

### Description

The 9640 *Methyl Amyl Ketone (MAK)* is a slow evaporating solvent with high activity. It has a low density, which reduces its contribution to VOC content. Further, it is listed as a fairly inert solvent and can be used in some nonfood use applications.

### Benefits and Features

- **Slow evaporation rate**
- **Alternative solvent for "hazardous air pollutants"**
- **Highly miscible with other common organic solvents**

**ATTENTION!**  
**INDUSTRIAL OR LABORATORY USE ONLY**  
NOT FOR RETAIL SALE

### Principal Components

<b>Name</b>	<b>CAS Number</b>
heptan-2-one	110-43-0

### Storage Parameters

<b>Properties</b>	<b>Value</b>
Shelf Life @22 °C [72 °F] Storage Temperature <sup>a)</sup>	5 y -20 to 40 °C [32 to 104 °F]

a) Storage below zero is not necessary. Cool, dry, and well ventilated area is recommended.

## Properties

<i>Physical Property</i>	<i>Method</i>	<i>Value</i>
Color Odor Density @25 °C [77 °F] Viscosity @25 °C [77 °F] Flash Point Freezing Point Boiling Point Vapor Pressure @20 °C [68 °F] Solubility in Water Relative Evaporation Rate Volatile Organic Compound (VOC) MIR value	Tag Closed Cup	Clear Sweet 0.81 g/mL 0.8 cP 39 °C [102 °F] -36 °C [-32.8 °F] 152 °C [306 °F] 2.8 hPa [2.1 mmHg] 0.5%(wt) 0.37 (ButAc = 1) 100% [810 g/mL] 2.36
<i>Solubility Parameters</i>		<i>Value</i>
Solubility in water Hansen Solubility Parameters <sup>a)</sup> (cal/cm <sup>3</sup> ) <sup>1/2</sup> ; [MPa] <sup>1/2</sup>	Total Non-Polar Polar Hydrogen Bonding	Slightly soluble 8.6 [17.6] 7.9 [16.2] 2.8 [5.7] 2.0 [4.1]

a) Hansen parameters calculate using component literature values and volume fraction composition.

## Compatibility

**Substrate Compatibility:** The 9640 is compatible with most substrate materials found on printed circuit assemblies.

**Solvent Miscibility:** The 9640 is highly miscible with other common organic solvent. It can be mixed with

- Alcohols
- Aldehydes
- Aromatic and Aliphatic Hydrocarbons
- Ethers
- Glycols
- Glycol Ethers
- Ketones

## Health, Safety, and Environmental Awareness

Please see the 9640 **Safety Data Sheet** (SDS) for more details on transportation, storage, handling and other security guidelines.

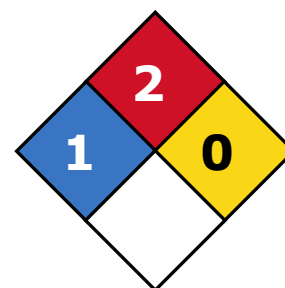
**Environmental Impact:** The 9640 has volatile organic content of 100% [810 g/L]. It is RoHS compliant.

**Health and Safety:** This liquid is flammable and should be kept away from flames and other ignition sources. Avoid breathing in fumes or direct contact with the material.

### HMIS® RATING

<b>HEALTH:</b>	<b>* 1</b>
<b>FLAMMABILITY:</b>	<b>2</b>
<b>PHYSICAL HAZARD:</b>	<b>0</b>
<b>PERSONAL PROTECTION:</b>	

### NFPA® 704 CODES



*Approximate HMIS and NFPA Risk Ratings Legend:*

0 (Low or none); 1 (Slight); 2 (Moderate); 3 (Serious); 4 (Severe)

## Packaging and Supporting Products

<i>Cat. No.</i>	<i>Packaging</i>	<i>Net Volume</i>		<i>Net Weight</i>	
<b>9640-1L</b>	Can	945 mL	31.9 fl oz	765 g	1.68 lb
<b>9640-4L</b>	Can	3.78 L	1 gal	3.06 kg	6.75 lb

*Contact MG Chemicals if custom packaging or sizes are required*



ISO 9001 Registered Quality System.  
Burlington, Ontario, Canada QMI File # 004008

# Methyl Amyl Ketone (MAK) 9640 Technical Data Sheet

9640

## Technical Support

Contact us regarding any questions, improvement suggestions, or problems with this product. Application notes, instructions, and FAQs are located at [www.mgchemicals.com](http://www.mgchemicals.com).

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## Warranty

*M.G. Chemicals Ltd.* warrants this product for 12 months from the date of purchase by the end user. *M.G. Chemicals Ltd.* makes no claims as to shelf life of this product for the warranty. The liability of *M.G. Chemicals Ltd.* whether based on its warranty, contracts, or otherwise shall in no case include incidental or consequential damage.

## Disclaimer

This information is believed to be accurate. It is intended for professional end users having the skills to evaluate and use the data properly. *M.G. Chemicals Ltd.* does not guarantee the accuracy of the data and assumes no liability in connection with damages incurred while using it.