

9680

Description

The 9680 *Toluene* is a medium evaporation solvent with high solvent strength that is widely used in the paint, chemical, and pharmaceutical industries. In the chemical industry and laboratories, toluene is commonly used as a starting material for chemical synthesis of various organic compounds, in paints and lacquers, and an additive and gasoline.

Benefits and Features

Moderate evaporation rate
 Highly miscible with other common organic solvents

ATTENTION!

INDUSTRIAL OR LABORATORY USE ONLY

NOT FOR RETAIL SALE

Principal Components

Name CAS Number Toluene 108-88-3

Storage Parameters

Properties	Value
Shelf Life @22 °C [72 °F]	5 y
Storage Temperature ^{a)}	-20 to 40 °C [-4 to 104 °F]

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

Properties

Physical Property	Method	Value
Color	Visual	Clear
Odor		Aromatic
Density @25 °C [77 °F]		0.87 g/mL
Viscosity @25 °C [77 °F]		0.56 mm ² /s
Flash Point	Closed cup	4 °C [39 °F]
Boiling Point		110 °C [230 °F]
Vapor Pressure @25 °C [77 °F]		30 hPa [22.5 mmHg]
Relative Evaporation Rate		2.2 (ButAc = 1)
Volatile Organic Compound (VOC)		100% [870 g/mL]
MIR value		3.88

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Solubility Parameters		Value	
Hansen Solubility Parameters a)		cal/cm ^{3½}	MPa ^½
	Total	18.2	8.9
	Non-Polar	18	8.8
	Polar	1.4	0.7
	Hydrogen Bonding	2.1	1.0

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

Compatibility

Substrate Compatibility: The 9680 *Toluene* is compatible with most substrate materials found on printed circuit assemblies.

Solvent Miscibility: The 9680 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 9680 **Safety Data Sheet** (SDS) for more details on transportation, storage, handling and other security guidelines.

Environmental Impact: The 9680 has volatile organic content of 100% [870 g/L]. It is RoHS compliant. **Health and Safety:**



CALIFORNIA PROPOSITION 65

This product can expose you to chemicals including toluene, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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.

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HMIS® RATING

HEALTH:	*	2
FLAMMABILITY:		3
PHYSICAL HAZARD:		0
PERSONAL PROTECTION:		



Approximate HMIS and NFPA Risk Ratings Legend:

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

Packaging and Supporting Products

Cat. No.	Packaging	Net Volume		Net Weig	ht	Packaging Weight
9680-945ML	Can	945 mL	31.9 fl oz	822 g	1.81 lb	TBD
9680-3.78L	Can	3.78 L	1 gal	3.29 kg	7.25 lb	п
Contact MG Chemicals if custom packaging or sizes are required						

TBD = To be determined

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.

Email: support@mgchemicals.com

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Mailing address: Manufacturing & Support Head Office

1210 Corporate Drive 9347–193rd Street

Burlington, Ontario, Canada Surrey, British Columbia, Canada

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Warranty

M.G. Chemicals Ltd. warranties 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.



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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.

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