

# KEY #9001 MMA MONOMER

## Product Data Sheet



## DESCRIPTION

**KEY #9001 MMA MONOMER** is a 100% methyl methacrylate monomer. **KEY #9001** may be used to clean tools during mixing/application of various **Key MMA** materials. **KEY #9001** is recommended to keep cove trowels clean during installation and finishing of MMA cove base mortar. **KEY #9001** is also used to pre-dissolve **KEY #9000 HARDENER** prior to mixing with **KEY #9540-HKP COVE PASTE RESIN** to ensure thorough blending. **KEY #9001** may also be used to lower viscosity of various **Key MMA** resins when desired, particularly in cold temperatures. When used to lower viscosity, additional **KEY #9000 HARDENER** must be added to offset a reduction in reactivity caused by the additional **KEY #9001**. Refer to SDS for health and safety information.

Name of product	Methyl methacrylate Monomer
Chemical formula	$\text{CH}_2=\text{C}(\text{CH}_3)\text{CO.OCH}_3$
Alternative name	2-propenoic acid, 2-methyl-, methyl ester
UN number	1247
CAS number	80-62-6

## PHYSICAL PROPERTIES

Boiling point	214°F (101°C)
Density (kgfm <sup>3</sup> )	0.94 g/cm <sup>3</sup> 7.844 lbs/gal
Vapor pressure	47 hPa (35 mm Hg)
Flash point	50°F (10 °C)

## PHYSICAL PROPERTIES

Viscosity (mPa/s) @ 20°C	0.58-0.63
Specific heat (k..l/kgJOC)	2.02
Thermal conductivity (W/m <sup>20</sup> C)	0.1488
Surface tension (N/m)	4.42 X 10 <sup>-2</sup>
Auto-ignition temperature	421°C
Solubility @ 20°C	Miscible with most organic solvents. Solubility of monomer in water: 1.6% Solubility of water in monomer: 1.15%
Heat of polymerization (kJ/mol)	57.7
Tg of homopolymer	105°C (378K)

## AVAILABILITY

**Key Resin** materials are available throughout the United States, Canada, and a number of other countries. Contact the **Key Resin Representative** in your area for details.

## TECHNICAL SERVICE

**Key Resin Company** provides services and consultations on material selection, specification, troubleshooting, and other information on the proper repair and protection of concrete surfaces. **Key Resin Representatives** are available to assist you. Telephone 888.943.4532 or visit [www.keyresin.com](http://www.keyresin.com).

## WARRANTY

**Key Resin Company** ("Key") warrants for a period of one (1) year that its products will be free of manufacturing defects and will be in conformity with published specifications when handled, stored, mixed, and applied in accordance with recommendations of Key. If any product fails to meet this warranty, the liability of Key will be limited to replacement of any non-conforming material if notice of such non-conformity is given to Key within (1) one year of delivery of materials. Key may in its discretion refund the price received by Key in lieu of replacing the material. No customer, distributor, or representative of Key is authorized to change or modify the published specifications of this warranty in any way. No one is authorized to make oral warranties on behalf of Key. In order to obtain replacement or refund the customer must provide written notice containing full details of the non-conformity. Key reserves the right to inspect the non-conforming material prior to replacement. EXCEPT FOR THE EXPRESSED WARRANTY STATED ABOVE, THERE ARE NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR PURPOSE. KEY'S OBLIGATION SHALL NOT EXTEND BEYOND THE OBLIGATIONS EXPRESSLY UNDERTAKEN ABOVE AND KEY SHALL HAVE NO LIABILITY OR RESPONSIBILITY TO THE PURCHASER OR ANY THIRD PARTY FOR ANY LOSS, COST, EXPENSE, DAMAGE OR LIABILITY, WHETHER DIRECT OR INDIRECT, OR FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.

Rev 6/26/2020 v1.0