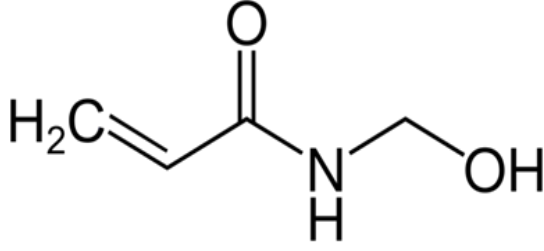


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**N-METHYLOL METHACRYLAMIDE (NMMA)****IUPAC NAME:** 2-Propenamide, N-(hydroxymethyl)-2-methyl**CHEMICAL FORMULA:** CH<sub>2</sub>=C(CH<sub>3</sub>)-CONH-CH<sub>2</sub>OH**CAS NO:** 923-02-4**MOLECULAR WEIGHT:** 115.13 g/mol**PACKING:** IBC, 1000 KG**PRODUCT DESCRIPTION:**

N-Methylol Methacrylamide (NMMA) is a functional monomer that provides crosslinking capability in polymer systems. It is widely used to enhance film durability, chemical resistance, and mechanical strength. NMMA is especially preferred as a performance-enhancing component in water-based resins, coating systems, and textile binders. It imparts improved formulation stability and long-term durability to products.

**PROPERTIES:**

- Supports crosslinking in polymer structures
- Enhances film durability
- Improves mechanical strength
- Reinforces texture and substrate integrity
- Increases chemical resistance
- Contributes to water and solvent resistance
- Enhances wet performance
- Maintains film integrity
- Improves surface hardness / resistance
- Provides long-term performance
- Increases coating durability

**APPLICATION AREAS:**

- Water-based resins
- Coating and paint systems
- Textile binders
- Functional polymer dispersions
- Polymer systems requiring crosslinking
- High-performance resin formulations

**IT IS APPLIED IN THE PRODUCTION OF:**

- Paint and coating industry
- Resin and polymer industry
- Textile chemicals industry
- Nonwoven industry
- Construction chemicals industry
- Functional polymer production
- Water-based systems industry
- Performance polymers applications



**CHEMICAL PROPERTIES**

<b>PURITY</b>	60%
<b>ACID CONTENT</b>	
<b>MOISTURE AMOUNT</b>	
<b>COLOUR (APHA)</b>	
<b>INHIBITOR</b>	

**PHYSICAL PROPERTIES**

<b>APPEARANCE</b>	Clear to pale yellow liquid
<b>PHYSICAL STATE</b>	Liquid
<b>BOILING POINT</b>	102 °C
<b>FREEZING POINT</b>	-37°C
<b>VAPOR PRESSURE</b>	0.021 Pa at 25 °C

**SAFETY INFORMATION**

<b>HAZARD PICTOGRAM(S)</b>	 
<b>HAZARD STATEMENT(S)</b>	<p>H302 - Harmful if swallowed</p> <p>H313 - May be harmful in contact with skin</p> <p>H317 - May cause an allergic skin reaction</p> <p>H340 - May cause genetic defects</p> <p>H350 - May cause cancer</p> <p>H361 - Suspected of damaging fertility or the unborn child</p> <p>H372 - Causes damage to organs through prolonged or repeated exposure if swallowed</p> <p>H402 - Harmful to aquatic life</p>
<b>PRECAUTIONARY STATEMENT(S)</b>	<p>P202 - Do not handle until all safety precautions have been read and understood</p> <p>P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection</p> <p>P314 - Get medical advice/ attention if you feel unwell</p> <p>P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician</p> <p>P302 + P352 - IF ON SKIN: Wash with plenty of soap and water</p> <p>P333 + P313 - If skin irritation or rash occurs: Get medical advice/ attention</p>

<b>STORAGE CLASS</b>	Storage Class (TRGS 510): LGK 12 – Non-combustible liquids
<b>STORAGE CONDITIONS</b>	Store in a cool, dry, and well-ventilated area. Keep container tightly closed when not in use. Protect from heat, direct sunlight, and moisture. Protect from freezing. Store away from incompatible materials.
<b>DISPOSAL</b>	Dispose of contents/container in accordance with local, regional, national, and international regulations. Do not discharge into drains, surface waters, or soil. Waste material should be handled by an authorized waste disposal contractor. Contaminated packaging should be treated as chemical waste. Avoid release to the environment.
<b>TRANSPORT INFORMATION</b>	<p><b>UN number</b></p> <ul style="list-style-type: none"><li>• ADR/RID: Not classified.</li><li>• IMDG: Not classified.</li><li>• IATA: Not classified.</li></ul> <p><b>UN proper shipping name</b></p> <ul style="list-style-type: none"><li>• Not applicabe.</li></ul> <p><b>Transport hazard class(es)</b></p> <ul style="list-style-type: none"><li>• ADR/RID: Not classified.</li><li>• IMDG: Not classified.</li><li>• IATA: Not classified.</li></ul> <p><b>Packaging group</b></p> <ul style="list-style-type: none"><li>• ADR/RID: Not applicabe.</li><li>• IMDG: Not applicabe.</li><li>• IATA: Not applicabe.</li></ul> <p><b>Environmental hazards</b></p> <ul style="list-style-type: none"><li>• ADR/RID: Not classified as environmentally hazardous.</li><li>• IMDG Marine pollutant: Not classified as environmentally hazardous.</li><li>• IATA: Not classified as environmentally hazardous.</li></ul>
<b>For more information, check the SAFETY DATA SHEET or get contact with us.</b>	

