MERACRYL™ METHACRYLATE MONOMERS
YOUR PERSONAL PARTNER FOR A SEAMLESS WORKFLOW.
With 3,900 employees and 15 production sites worldwide, Röhm is one of the world’s leading manufacturers in the methacrylate business. The medium-sized company with branches in Germany, China, the USA, Russia, and South Africa has more than 80 years of experience in methacrylate chemistry and a strong technology platform. More information is available at www.roehm.com.

We are close to our customers and markets. As one of the world’s leading partners in quality and reliability, we are committed to defining the methacrylate markets of tomorrow together with our customers. Our strategic goal is clear—to become the leading Methacrylate Verbund.

Our global presence makes us a reliable partner developing the right solutions together with our customers. The structure of an integrated production network gives us the flexibility to quickly respond to our customers’ needs. For this we build on decades of experience in the field of methacrylate chemistry. At the same time, we are further expanding our technology-based strengths in the integrated production network and are continuously developing new fields of application with our products.
More than 80 years of expertise in methacrylate monomers

In 1901, Dr. Otto Röhm, a pioneer in methacrylate chemistry, paved the way for a longstanding tradition of innovation. With large-scale industrial production of methacrylate monomers and polymers already on the rise in the 1930s, Röhm developed into a leading supplier for methacrylates globally.

Röhm’s global trademark for methacrylate monomers, MERACRYL™, stands for high-quality products, supply reliability and excellent customer service. With our global production network including 4 plants in Germany, USA and China and continuous investment in plant safety, material availability and efficiency enhancements, we ensure high reliability of supply worldwide.

OUR COMMITMENT TO OUR CUSTOMERS

- Long-term partnership with our customers on a global scale
- Excellent customer service in all core regions
- Reliable and cost-efficient supply chain on a global basis
- High production reliability and technology leadership
- High product quality and strong technical expertise
# THE MERACRYL™ METHACRYLATE MONOMER PORTFOLIO

<table>
<thead>
<tr>
<th>MERACRYL™ product</th>
<th>Chemical name</th>
<th>Formula</th>
<th>Molecular weight g/mol</th>
<th>Boiling point °C/hPa</th>
<th>Glass transition temperature Tg °C</th>
<th>Standard stabilization ppm MEHQ</th>
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</thead>
<tbody>
<tr>
<td>MMA</td>
<td>Methyl methacrylate</td>
<td>CAS No. 80-62-6</td>
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<td>100/1013</td>
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<td>Methacrylic acid</td>
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<td>n-BMA</td>
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<td>–</td>
<td>1000–3000 (^2)</td>
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\(^1\) Europe only  \(^2\) Sulfuric acid  \(^3\) Other stabilizer types and concentration levels on request
Methacrylate monomers are used in the production and modification of a wide variety of polymers – such as cast sheet, methacrylate molding compounds, artificial marble or PVC modifiers.

MERACRYL™ MMA, n-BMA and i-BMA are also used as building blocks in a broad range of applications, such as paints & coatings, reactive resins, adhesives and many others. These monomers provide very good exterior durability and color stability.

MERACRYL™ MMA, which has a glass transition temperature of 105°C, is used wherever hardness and thermo-mechanical stability is needed.

MERACRYL™ n-BMA and i-BMA provide flexibility due to softening temperature of 20°C and 53°C.

MERACRYL™ GMAA is used as building block in applications like paints, dispersions or construction chemicals. It confers specific properties, such as improved freeze-thaw resistance, colloidal stability in emulsion, and enhanced film adhesion.

Hydroxyesters are recommended for heat or room temperature cured coatings with permanent marring and solvent resistance, high gloss retention and weatherability. Hydroxyfunctional prepolymer, for example, can be crosslinked via melamine resins, blocked isocyanates (one-component systems), or multifunctional isocyanates (two-component systems). Hydroxyesters also serve as adhesion promoters in reactive resins for bonding to metal surfaces.

Combinations of methacrylamide and acetal-modified methacrylamides are recommended for heat-activated self-crosslinking resins. MERACRYL™ MAAmide alone can be used as a polar co-monomer with a high glass transition temperature for improving solvent resistance and cohesion. For specific applications, methacrylamide can be grafted onto natural fibers (silk weighting).
# THE MERACRYL™
## METHACRYLYATE MONOMER PORTFOLIO

### MERACRYL™ PRODUCT APPLICATION MATRIX

<table>
<thead>
<tr>
<th>1. PAINTS &amp; COATINGS</th>
<th>MMA</th>
<th>GMAA</th>
<th>n-BMA</th>
<th>i-BMA</th>
<th>HEMA</th>
<th>HPMA</th>
<th>MAAmide</th>
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# MERACRYL™ PRODUCT APPLICATION MATRIX

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<tr>
<th>Meracrylate Type</th>
<th>MMA</th>
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<th>n-BMA</th>
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*Can be both solvent and water borne