The broadest portfolio of vinyl monomers
BASF is the world's leading chemical company: The Chemical Company. Its portfolio ranges from chemicals, plastics, performance products and agricultural products to oil and gas. As a reliable partner BASF creates chemistry to help its customers in virtually all industries to be more successful. With its high-value products and intelligent solutions, BASF plays an important role in finding answers to global challenges such as climate protection, energy efficiency, nutrition and mobility.

Top intermediates supplier

The operating division Intermediates of the BASF Group develops, produces and markets the world's largest range of intermediates. The most important of the division's more than 600 products include amines, diols, polyalcohols, acids and specialties. Among other applications, intermediates are used as starting materials for coatings, plastics, pharmaceuticals, textile fibers, detergents and crop protectants. Innovative BASF intermediates help to improve the properties of the final product and the efficiency of production processes. The ISO 9001:2000-certified operating division Intermediates operates plants in Europe, Asia and the Americas.
With our new coatings laboratory facility in Ludwigshafen we further develop our products for the coatings industry, for example chemical intermediates like vinyl monomers.

Your leading provider for functional vinyl monomers

Customers can rely on BASF for the broadest portfolio of functional vinyl monomers to meet their needs for specific applications. With state-of-the-art know-how and technology, and our comprehensive experience as a global chemicals supplier, BASF sets the global standard for the development and production of intermediate chemicals. World-scale capacities and advanced logistics ensure reliable delivery and allow for just-in-time supply.

BASF focuses its extensive resources to provide high quality functional vinyl monomer products and services to meet our customers’ needs. By delivering this value, BASF works to earn its customers’ trust as their long-term preferred partner. Our team of vinyl monomers experts provides customers with counseling to help them to get the best results for their products. Our customers can also rely on the analytical expertise of BASF’s global analytics center and its customized services for invariably high quality products.
Leading technology for world-scale capacities

BASF’s global leadership in acetylene chemistry has made it the leader for development and production of functional vinyl monomers. With an ever expanding product portfolio, BASF can satisfy your needs for functional vinyl monomers now and in the future.

Please visit us under http://www.basf.de/en/intermed/products/vinylmonomers/

BASF offers the world’s most extensive line of functional vinyl monomers both in lab- and world-scale quantities.
BASF’s innovative applications help customers succeed

BASF’s functional vinyl monomers can be used for the most demanding applications. With high reactivity, and exceptional quality and lot-to-lot consistency, they are the best choice for a wide range of syntheses including polymerization, addition and electrocyclic reactions:

- Monomer for polymerisation
- Cross-linking monomer
- Aroma-chemical production
- Reactive diluent for UV-curing

BASF has also played a key role in the creation of many applications, such as pharmaceuticals, UV curing, adhesives and coatings. And BASF can help you to be more successful with your new applications: we have a long history of supporting customers with our extensive range of technical and chemical know-how, creating customized solutions that help our customers to become more successful.

Our technical support for functional vinyl monomers includes a wide range of activities and services:

- Analytical services
- Customized product quality
- Eco-efficiency analysis
- Tailor-made compounds
- Joint R&D activities
- Logistic consulting

BASF vinyl monomers are used in many different applications such as coatings, adhesives, UV curing and pharmaceuticals.
### Vinyl monomers portfolio

<table>
<thead>
<tr>
<th>International name</th>
<th>Formula</th>
<th>CAS-No.</th>
<th>Registration</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>N-Vinyl compounds</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>N-Vinyl-pyrrolidone (NVP)</td>
<td><img src="https://example.com" alt="NVP" /></td>
<td>88-12-0</td>
<td>EINECS, TSCA, ENCS/ISHL, DSL, IECSC, KECI, PICCS, AICS, NZloG</td>
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<tr>
<td>N-Vinyl-caprolactam (NVC)</td>
<td><img src="https://example.com" alt="NVC" /></td>
<td>2235-00-9</td>
<td>EINECS, TSCA, ENCS/ISHL, DSL, IECSC, KECI, PICCS, AICS, NZloG</td>
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<tr>
<td>Liquid NVC</td>
<td></td>
<td></td>
<td>EINECS, TSCA, AICS, DSL, NCS/ISHL, IECSC</td>
</tr>
<tr>
<td>N-Vinyl-imidazole</td>
<td><img src="https://example.com" alt="NIVI" /></td>
<td>1072-63-5</td>
<td>EINECS, TSCA, ENCS/ISHL, NDSL, IECSC, KECI, PICCS, NZloG</td>
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<tr>
<td><strong>O-Vinyl compounds</strong></td>
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<td></td>
<td></td>
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<tr>
<td>Ethyl vinyl ether</td>
<td><img src="https://example.com" alt="EtV" /></td>
<td>109-92-2</td>
<td>EINECS, TSCA, ENCS/ISHL, DSL, IECSC, KECI, PICCS, AICS, NZloG</td>
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<td>n-Butyl vinyl ether</td>
<td><img src="https://example.com" alt="nBtv" /></td>
<td>111-34-2</td>
<td>EINECS, TSCA, ENCS/ISHL, DSL, IECSC, KECI, PICCS, AICS, NZloG</td>
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<tr>
<td>iso-Butyl vinyl ether</td>
<td><img src="https://example.com" alt="isoBtv" /></td>
<td>109-53-5</td>
<td>EINECS, TSCA, ENCS/ISHL, DSL, IECSC, KECI, PICCS, AICS, NZloG</td>
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<tr>
<td>tert.-Butyl vinyl ether</td>
<td><img src="https://example.com" alt="tBtv" /></td>
<td>926-02-3</td>
<td>TSCA, ENCS/ISHL, NDSL, KECI, PICCS</td>
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<tr>
<td>Cyclohexyl vinyl ether</td>
<td><img src="https://example.com" alt="cV" /></td>
<td>2182-55-0</td>
<td>EINECS, TSCA, ENCS/ISHL, NDSL, KECI, PICCS, NZloG</td>
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<tr>
<td>2-Ethylhexyl vinyl ether</td>
<td><img src="https://example.com" alt="2EhV" /></td>
<td>103-44-6</td>
<td>EINECS, ENCS/ISHL, PICCS, NZloG</td>
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<tr>
<td>Dodecyl vinyl ether</td>
<td><img src="https://example.com" alt="dV" /></td>
<td>765-14-0</td>
<td>EINECS, TSCA, ENCS/ISHL, NDSL, IECSC, KECI, NZloG</td>
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<tr>
<td>Octadecyl vinyl ether</td>
<td><img src="https://example.com" alt="oV" /></td>
<td>930-02-9</td>
<td>EINECS, TSCA, ENCS/ISHL, DSL, KECI, PICCS</td>
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<tr>
<td><strong>Divinyl compounds</strong></td>
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<td></td>
<td></td>
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<tr>
<td>1,4-Butanediol divinyl ether</td>
<td><img src="https://example.com" alt="1,4BD" /></td>
<td>3891-33-6</td>
<td>EINECS, TSCA, ISHL, DSL, IECSC, PICCS, AICS, NZloG</td>
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<tr>
<td>Diethylene glycol divinyl ether (DVE-2)</td>
<td><img src="https://example.com" alt="DVE-2" /></td>
<td>764-99-8</td>
<td>EINECS, TSCA, ENCS/ISHL, NDSL, PICCS, NZloG</td>
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<tr>
<td>Triethylene glycol divinyl ether (DVE-3)</td>
<td><img src="https://example.com" alt="DVE-3" /></td>
<td>765-12-8</td>
<td>EINECS, TSCA, ENCS/ISHL, NDSL, IECSC, KECI, PICCS, AICS, NZloG</td>
</tr>
<tr>
<td>1,4-Cyclohexanediol divinyl ether</td>
<td><img src="https://example.com" alt="1,4CHD" /></td>
<td>17351-75-6</td>
<td>EINECS, TSCA, NDSL, IECSC, NZloC, PICCS, KECI</td>
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<td><strong>Hydroxy vinyl compounds</strong></td>
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<td></td>
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<tr>
<td>Hydroxybutyl vinyl ether</td>
<td><img src="https://example.com" alt="HBO" /></td>
<td>17832-28-9</td>
<td>EINECS, TSCA, ENCS/ISHL, NDSL, IECSC, KECI, PICCS, NZloG</td>
</tr>
<tr>
<td>1,4-Cyclohexanediol mono vinyl ether</td>
<td><img src="https://example.com" alt="1,4CHDM" /></td>
<td>114651-37-5</td>
<td>TSCA, ISHL, NDSL, IECSC, NZloC, PICCS</td>
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<tr>
<td>Melting point</td>
<td>Boiling point (1013.25 hPa)</td>
<td>Flash point (DIN 51751)</td>
<td>Viscosity (25°C)</td>
</tr>
<tr>
<td>---------------</td>
<td>-----------------------------</td>
<td>--------------------------</td>
<td>------------------</td>
</tr>
<tr>
<td>13–14°C</td>
<td>90–92°C</td>
<td>95°C</td>
<td>2.4 mPa·s</td>
</tr>
<tr>
<td>34°C</td>
<td>113–116°C</td>
<td>114°C</td>
<td>2.88 mPa·s (50°C)</td>
</tr>
<tr>
<td>14°C</td>
<td>70 °C</td>
<td>&gt; 100 °C</td>
<td>5 mPa·s</td>
</tr>
<tr>
<td>&lt;-50°C</td>
<td>192°C</td>
<td>84°C</td>
<td>2.4 mPa·s</td>
</tr>
</tbody>
</table>

-115°C: 36°C   -45°C: 0.28 mPa·s (5°C) | 0.754 g/cm³ |
-113°C: 94°C   -6°C: 0.43 mPa·s       | 0.779 g/cm³ |
-112°C: 83°C   -15°C: 0.48 mPa·s      | 0.769 g/cm³ |
76°C: -17°C: 0.41 mPa·s               | 0.762 g/cm³ |
-109°C: 150–152°C | 35°C | 1.2 mPa·s | 0.891 g/cm³ |
-100°C: 177°C | 52°C | 0.98 mPa·s | 0.809 g/cm³ |
-12°C: 90°C (1 mbar) | 113°C | 2.76 mPa·s | 0.817 g/cm³ |
27°C: 179–192°C (6.7 mbar) | 171°C | 4.16 mPa·s (40°C) | 0.812 g/cm³ (40°C) |
-8°C: 166°C   | 58°C | 1.3 mPa·s | 0.898 g/m³ |
-21°C: 191°C | 83°C | 2.0 mPa·s | 0.968 g/m³ |
-7°C: 242–245°C | 119°C | 2.64 mPa·s | 0.99 g/m³ |
6°C: 253°C   | 120°C | 4.41 mPa·s (20°C) | 0.943 g/cm³ |
-33°C: 189°C | 88°C | 5.9 mPa·s | 0.944 g/m³ |
12°C: 262 °C | 134°C | 58 mPa·s | 0.968 g/cm³ (30°C) |
BASF has more than 75 years of experience with functional vinyl monomers. This dates back to the groundbreaking discovery of how to control acetylene pressure reactions by German chemical engineer Walter Reppe. BASF remains fully committed to producing high quality acetylene based vinyl compounds on a large scale.

Research and development are core BASF competencies and the basis for generating the world’s most extensive line of functional vinyl monomers. Our large, modern multi-purpose plants produce tons of special compounds of unmatched quality. BASF can provide customized products to meet the specific demands of our customers.

All BASF production facilities are equipped with the latest process control techniques and meet high safety and ecological standards.

BASF can provide customized products that meet specific needs.
Ready for you:
Intermediates innovation team

The New Business Development team of the BASF Intermediates division, operating in Europe, the NAFTA region, and Asia, is specialized in the life sciences sector, general industrial and coatings applications.

Based on its extensive expertise, the team endeavors to develop new chemicals to support customers in their innovation needs. The emphasis is on maintaining close contact with customers while offering the benefits of being part of BASF’s global ‘Verbund’ of integrated research and production structures.

The team has direct access to BASF’s three competence centers and, thus to 8,300 colleagues that are working in research and development. Additionally, the team can rely on a vast number of state-of-the-art multi-product manufacturing plants. Customers are supplied with tailor-made intermediates produced to their individual requirements in both small lab- and world-scale quantities.

The product range is complemented by extensive services providing solutions to satisfy the particular demands of small- and medium-sized companies: BASF develops suitable analytical methods and logistics solutions, and assists with the notification of new substances as well as patent-law and environmental issues.
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Vinyl ethers are suitable

- monomers for high performance polymers
- cross-linkers in specialty polymer synthesis
- for the synthesis of aroma chemicals
- reactive diluents for thermally curing composites
- reactive diluents for UV-curable coatings
- reactive diluents for specialty printing inks

Please visit us under
http://www.basf.de/en/intermed/products/vinylmonomers/