APPEARANCE
Bulk density: 670 – 750 kg/m³ ± 10 %
Particle size distribution: about 90 % 0 – 300 μm
Solubility: approx. 30 g/L in water at 20 °C

SPECIFIC VALUES
<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assay (%) min.</td>
<td>99.0</td>
</tr>
<tr>
<td>Ash (%) max.</td>
<td>0.5</td>
</tr>
<tr>
<td>Loss on drying (%) max.</td>
<td>0.3</td>
</tr>
</tbody>
</table>

MOLECULAR DATA
Molecular formula: C₅H₁₁NO₂S
Molecular weight: 149.21 g/mol

PRODUCTION
DL-Methionine for Aquaculture™ is synthesized from petrochemical raw materials using an environmentally friendly patented proprietary process by the feed additives business of Evonik Industries AG, known as the carbonate process. This proven complex, system results in a high quality product without the formation of waste salt, while largely avoiding pollution by waste air and water.

PROCESSING
DL-Methionine for Aquaculture™ can be processed into premixes, mineral and compound feeds together with milk replacers by any technical procedure. Its technical properties guarantee homogeneous mixability and stability against demixing.

USE
DL-Methionine for Aquaculture™ has been developed to provide the most effective methionine source to the aquaculture feed industry combined with an optimized particle size distribution for aquafeeds. Particular for use in finfishes, shrimp and other crustaceans. DL-Methionine for Aquaculture™ ensures the adequate supply of sulfur amino acids, especially of the essential methionine. Because of methionine being first or second-limiting for many aquatic species its use has been established in the last years.

Food and pharma grade amino acids:
www.rexim.fr

NUTRITIONAL MATRIX
<table>
<thead>
<tr>
<th>Component</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methionine content</td>
<td>99 %</td>
</tr>
<tr>
<td>Digestibility</td>
<td>100 %</td>
</tr>
<tr>
<td>Crude protein (N x 6.25)</td>
<td>58 %</td>
</tr>
</tbody>
</table>

REGULATORY AFFAIRS
CAS-No. 59-51-8
Customs tariff number: 293040

DL-Methionine for Aquaculture™ is approved for use in all animal species according to European feed law and labeled accordingly.

DL-Methionine for Aquaculture™ is not subject to dangerous goods regulations.
STORAGE AND STABILITY

DL-Methionine for Aquaculture™ should be kept cool and dry in unopened original packing. Storage and conditions of 5 °C – 30 °C and 20 – 75 % rel. humidity are recommended. Under these conditions its active content is guaranteed for 3 years from the manufacturing date. The manufacturing date is part of the lot number on the package label.

PACKAGING

Valve type paper bag 2-ply + plastic film, 25 kg net.
Bulk bag / FIBC PP coated, 1000 kg net.

SAFETY AND ENVIRONMENT

DL-Methionine for Aquaculture™ can be handled safely.

According to EC chemicals legislation, it is non toxic, and, if correctly handled, it does not irritate the skin and mucous membranes. Accordingly, it is not classified as a hazardous chemical. The usual regulations of safety and hygiene for handling of chemicals should be followed.

For additional information, please contact us directly.