Sugar Beet Molasses
(General information)
(Product code INT1all)

General information on molasses

Sugar beet molasses / Sugar cane molasses
Molasses is highly valued as an animal feed owing to its many beneficial properties. It is used to enhance and regularize the taste of mixed feeds and roughage, resulting in increased feed intake. The use of molasses requires little in the way of investment in technical infrastructure, particularly in the silage sector, where effective use can be achieved with very simple means. Molasses is also widely used in the fermentation industry, as it provides a good substrate for a range of fermentation technologies.

Quality
Not all molasses is equal. There is a broad distinction between sugar cane and sugar beet molasses, as well as significant quality differences within these two classifications.
The guaranteed quality characteristics vary among European countries. As a rule, the price of molasses as a commodity is determined by its total sugar content and sometimes also by its water content, although sugar content and water content are generally mutually interdependent. The sugar in molasses is made up primarily of sucrose and inverted sugar. The sugar in cane molasses is about 2/3 sucrose and 1/3 inverted sugar, whereas the sugar in beet molasses is almost entirely sucrose, with the inverted sugar content never exceeding 1%.

Cane and beet molasses also vary in terms of their pH value and mineral and ash content. The mineral and ash content generally ranges from 8% (very low) to 13% (very high). Beet molasses has a protein content of approximately 8-9%, which is about twice that found in cane molasses. Molasses has a specific gravity of between 1.35 and 1.45, meaning that it is heavier than water. Under “normal” conditions, molasses can be stored for very long periods.

Sugar beet molasses – Analysis
Molasses is a by-product of a number of manufacturing processes and technologies. The process used determines both the amount and quality of the molasses produced.

Reference values for sugar beet molasses

<table>
<thead>
<tr>
<th></th>
<th></th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total sugar content</td>
<td>42 - 50</td>
<td></td>
</tr>
<tr>
<td>Moisture</td>
<td>20 - 25</td>
<td></td>
</tr>
<tr>
<td>Ash</td>
<td>approx. 9</td>
<td></td>
</tr>
<tr>
<td>Betaine</td>
<td>approx. 4,5</td>
<td></td>
</tr>
<tr>
<td>Nitrogen - total -</td>
<td>1,6 - 2,0</td>
<td></td>
</tr>
</tbody>
</table>

Feed-grade molasses has a guaranteed minimum sugar content of 40-42%, while industrial grade molasses for the most part has a guaranteed minimum sugar content of 47-50%. The moisture content is not guaranteed.

Liability
The information contained herein is based on technical data that Liquid Energy Trading Company Swiss SA (later on called LetCo) believes to be reliable and accurate, but disclaims any warrant or guarantee, express or implied. LetCo reserves the right to change information contained herein without prior notice. Any information included herein taken solely or as a whole, does not suggest in any way the product is of satisfactory quality or is adequate for a particular purpose. The purchasing party is not released from the burden of carrying out his own tests and experiments. Because conditions of use of this product are outside our control, LetCo excludes any legal or other liability for the use of this information or any part of it, whether or not based on LetCos negligence, and therefore LetCo shall not be liable for any damages (special, direct, indirect, consequential damages) relating to the use of this information or the use of the product referred herein, solely or in combination with other products. Consequently all liability on the part of LetCo is excluded. Furthermore, our sales and delivery conditions will apply accordingly.

Via Trevano 55c · CH-6900 Lugano · Switzerland
Tel +41-91-7439713 · Fax +41-91-7439715 · trade@liquid.energy.ch · www.liquid-energy.ch