1,3 BUTYLENE GLYCOL CQ

BASIC INFORMATION
The multifunctional and natural choice for beauty

INTRODUCTION
OXEAs 1,3 Butylene Glycol Cosmetic Quality (short form: 1,3 Butylene Glycol CQ or 1,3 BG CQ) is a high purity, slightly viscous, water-clear and colorless liquid. Due to the product properties, 1,3 BG is best suited for cosmetic formulations in skin care, make-up, hair care, antiperspirant/deodorant, sun care, nail care as well as toiletries and fragrances.

OXEA is committed to a manufacture without genetically modified organisms and without food-related raw materials. In addition, the product is well-suited for the production of natural cosmetic extracts and pre-formulations of cosmetic relevance.

Whether for skin care, make-up or fragrances – 1,3 Butylene Glycol CQ is manufactured in tightly controlled and steadily improved synthetic processes based on OXEAs sophisticated know-how built over decades of production experience. Product quality is regularly monitored and assessed by highly trained professionals of OXEAs Analytical Department.

Find out more about the product specifications, areas of application of 1,3 BG in this brochure! Talk to us if you have any questions.

PRODUCT DESCRIPTION
Due to its balanced property profile, 1,3 Butylene Glycol CQ is broadly used in a multitude of cosmetic formulations as a humectant, emollient, skin moisturizer, solvent, solubilizer, carrier, viscosity modifier, fragrance release retarder and film-forming additive.

1,3 BG is completely soluble in Ethanol, n-Propanol, iso-Propanol, Propylene Glycol, Methylpropanediol, Glycerol, Ketones or Esters. Additionally, it is completely water-soluble and may be conveniently added directly to the aqueous phase of water-based cosmetic formulations.

SALES SPECIFICATION
Find out more about the sales specification in this chapter. All Sales Specification Parameters are also listed in the Product Quality Report (PQR). If you have any questions, feel free to contact our colleagues in the different areas.
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1,3 BG CQ is a perfect ingredient for cosmetics due to low viscosity, high hygroscopicity, low odor and good solubility in water. In addition, it is suitable for skin care formulations and can be used as a humectant to enhance skin moisturization. Moreover, it possesses a wide range of uses in the cosmetic industry, including anti-aging, anti-inflammatory, and anti-microbial properties. 1,3 BG CQ is manufactured in both liquid and solid forms, allowing for versatile use in various cosmetic applications.

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Sales specification

<table>
<thead>
<tr>
<th>Property</th>
<th>Limit</th>
<th>Unit</th>
<th>Test method</th>
</tr>
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<tbody>
<tr>
<td>Moisture Content</td>
<td>max. 0.5%</td>
<td>%</td>
<td>DIN EN ISO 2114/ASTM D 1613</td>
</tr>
<tr>
<td>Acidity, as Acetic Acid</td>
<td>max. 0.005%</td>
<td>%</td>
<td>DIN EN ISO 2114/ASTM D 1613</td>
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<tr>
<td>Ash</td>
<td>max. 0.05%</td>
<td>%</td>
<td>ASTM D 2195</td>
</tr>
<tr>
<td>Sulfates, as SO4</td>
<td>max. 0.005%</td>
<td>%</td>
<td>IC</td>
</tr>
<tr>
<td>Heavy Metals, as Lead (Pb)</td>
<td>max. 5 mg/kg</td>
<td></td>
<td>ICP</td>
</tr>
<tr>
<td>Arsenic</td>
<td>max. 2 mg/kg</td>
<td></td>
<td>ICP</td>
</tr>
<tr>
<td>Distillation Range (95%)</td>
<td>max. 203 – 209°C</td>
<td></td>
<td>DIN 53171/ASTM D 1078</td>
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<tr>
<td>Initial Boiling Point</td>
<td>min. 200°C</td>
<td></td>
<td>DIN 53171/ASTM D 1078</td>
</tr>
<tr>
<td>Final Boiling Point</td>
<td>max. 215°C</td>
<td></td>
<td>DIN 53171/ASTM D 1078</td>
</tr>
<tr>
<td>Platinum/Cobalt Color</td>
<td>max. 10*</td>
<td></td>
<td>DIN EN 1557/DIN EN ISO 6271</td>
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<tr>
<td>Specific Gravity at 20°C</td>
<td>1.4390 – 1.4410</td>
<td></td>
<td>DIN 51 423-2/ASTM D 1747</td>
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<tr>
<td>Odor</td>
<td>Odor less</td>
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<td>DL 1922</td>
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</tbody>
</table>

Sales specification for 1,3 Butylene Glycol CQ.
For further information please contact your nearest OXEA Sales Representative.

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