
Technical Information

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Lugalvan[®] BNO 24

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BASF Aktiengesellschaft

**Nonionic surfactant for the electroplating industry and the chemical
and allied industries**
Auxiliary brightener for the electroplating industry

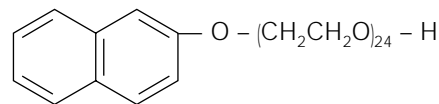
BASF

Lugalvan BNO 24

Chemical nature

β -Naphthol ethoxylate

Structural formula



Molecular formula

C₅₈H₁₀₄O₂₅

Molar mass (DIN 51405)

1201.47 g/mol

Properties

Physical form	Clear, yellow liquid
Concentration (100%-water content)	74 – 76 %
Water content (DIN 51777, Part 1; ASTM D 1744)	24 – 26 %
Density (DIN 51757, ASTM D 1298, 23 °C)	1.11 – 1.14 g/cm ³
Viscosity (Ubbelohde, DIN 51562, Part 1, ASTM D 445, 23 °C)	155 – 205 mm ² /s
Cloud point (DIN EN 1890, in NaCl solution)	80 – 84 °C
pH (ISO 976, 10%)	6 – 8

The above information is correct at the time of going to press. It does not necessarily form part of the product specification.

A detailed product specification is available from your local BASF representative.

Storage

Lugalvan BNO 24 has a shelf life of at least two years in its sealed original packaging, provided it is stored properly.

Application

Lugalvan BNO 24 is a nonionic surfactant for use in the electroplating industry and the chemical and allied industries.

It is also used to formulate brightener additives employed in the electroplating industry.

Lugalvan BNO 24 is particularly effective as an auxiliary brightener in acid zinc electrolytes for increasing the throwing power and improving ductility. It can also be used to substantially increase the cloud point of zinc plating baths. It needs to be employed at a concentration of 2 – 6 g/l.

Safety

We know of no ill effects that could have resulted from using Lugalvan BNO 24 for the purpose for which it is intended and from processing it in accordance with current practice.

According to the experience we have gained over many years and other information at our disposal, Lugalvan BNO 24 does not exert any harmful effects on health, provided that it is used properly, due attention is given to the precautions necessary for handling chemicals, and the information and advice given in our safety data sheet are observed.

Note

The information submitted in this publication is based on our current knowledge and experience. In view of the many factors that may affect processing and application, these data do not relieve processors of the responsibility of carrying out their own tests and experiments; neither do they imply any legally binding assurance of certain properties or of suitability for a specific purpose. It is the responsibility of those to whom we supply our products to ensure that any proprietary rights and existing laws and legislation are observed.

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