
Technical Information

March 2013
Supersedes issue dated March 2011

08_0806101e-02/Page 1 of 3
Last change WF-No. 1440

® = Registered trademark of BASF

Lutensit® A types

Lutensit® A-BO

Lutensit® A-EP

Anionic surfactants for detergents and cleaners, and for other applications in the chemical and allied industries

Chemical nature

The Lutensit® A types are anionic surfactants with the following composition.

Lutensit® A-BO	Sodium dioctylsulphosuccinate, dissolved in a mixture of water and neopentyl glycol
Lutensit® A-EP	Acid phosphoric ester of a fatty alcohol ethoxylate

PRD-Nos.*

30043933 Lutensit® A-BO
30043926 Lutensit® A-EP

* BASF's commercial product numbers.

Properties

The Lutensit® A types are anionic surfactants. The balance between the hydrophilic and a hydrophobic species in the active, anionic group is responsible for the high levels of surface activity that these products display. The anionic group in the molecule largely determines the properties displayed by the individual surfactants in the range, but the inactive counterion also plays its part.

The Lutensit® A types are yellowish or brownish liquids.

Properties of the Lutensit® A types

	Unit	Lutensit® A-BO	Lutensit® A-EP
Physical form		Liquid	Liquid
Concentration	%	approx. 60	approx. 100
pH (EN 1262, 5% in water)		approx. 6,5	approx. 2
Density* (DIN 51757, 23 °C)	g/cm ³	approx. 1.1	approx. 1.1
Setting point* (DIN 51583)	°C	approx. -15	Becomes immobile at 0 °C
Surface tension** (EN 14370, 23 °C, 0.1%)			
in distilled water	mN/m	approx. 29	approx. 39
in 5% sulphuric acid	mN/m	approx. 33	approx. 36
in 4% caustic soda	mN/m	approx. 34	approx. 38
Wetting power* (EN 1772, 23 °C, amount of product required for immersion time of 100 s)	g/l	approx. 0.2	approx. 2.5
Foaming power* (EN 12728, 23 °C, 0.2%)			
in distilled water	cm ³	approx. 200	approx. 500
in potable water (Hardness approx. 2.7 mmol/l Ca ²⁺ ions)	cm ³	approx. 100	approx. 250

* These are average values from a representative sample of batches. They are not monitored on a continuous basis.

** Applying Harkins-Jordan correction

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.

Solubility

Solubility of the Lutensit® A types
(10% in solvent at 23 °C)

Lutensit®	A-BO	A-EP
Distilled water	•	+
Potable water (Hardness approx. 2.7 mmol/l Ca ²⁺ ions)	•	+
Caustic soda, 5%	–	+
Sulphuric acid, 5%	•	+
Sodium chloride solution, 5%	–	+
Isopropanol	+/•	+
White mineral spirits	+	+
Xylene	+	+

+ = *Forms clear solution*

• = *Forms cloudy solution*

– = *Insoluble or sparingly soluble*

The Lutensit® A types are compatible with anionic and nonionic substances such as other surfactants, and with dyes, protective colloids, thickeners and similar products with a molar mass in the upper range.

Mixtures of Lutensit® A types and cationic substances can precipitate and show other signs of incompatibility.

The Lutensit® A types are compatible with electrolytes insofar that their surface activity is not impaired by hard water or heavy metal ions.

Safety

We know of no ill effects that could have resulted from using Lutensit® A types for the purpose for which it is intended and from processing it in accordance with current practices.

According to the experience that we have gained over many years and other information at our disposal, Lutensit® A types do not exert harmful effects on health, provided they are used properly, due attention is given to the precautions necessary for handling chemicals, and the information and advice given in our safety data sheets are observed.

Please refer to the latest Safety Data Sheet for detailed information on product safety.

Note

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