

POTASSIUM HYDROXIDE SOLUTION, 45 %

GENERAL INFORMATION

Chemical Identity	Potassium Hydroxide Solution Caustic Potash Lye 45 % KOH in water
CAS No.	1310-58-3
EINECS No.	215-181-3
Molar Mass	56.1 g/mol
Appearance	clear, colourless solution

PHYSICAL PROPERTIES

Property	Value (approx.)	Unit
Density (20 °C)	1.45	g/cm ³
Viscosity (20 °C)	4.3	mPa s
Viscosity (70 °C)	1.8	mPa s
Freezing point	- 20.0	°C
Boiling point	136.0	°C
pH value	> 13.5	

DELIVERY FORM

- Road tanker
- Tank ship
- Rail tank car 27 / 55 t

STORAGE AND HANDLING

A permanently constant product quality can be expected when stored under optimal storage conditions (tightly sealed, free of contamination and at mild temperatures).

Please feel free to contact your customer service representative in case of additional questions regarding storage conditions and stability.

SAFETY AND ENVIRONMENT

Potassium Hydroxide has numerous common applications e.g. in food, pharma and various technical uses. However, it is classified as hazardous and highly corrosive substance. Therefore, the information provided in the Safety Data Sheet concerning safety and handling must be observed.

CERTIFICATES AND REGULATORY AFFAIRS

- ISO 9001
- ISO 14001
- HACCP
- Kosher & Halal
- Vegan, no allergens

The status per country can be viewed online at www.potassium-derivatives.com.

CHEMICAL PROPERTIES

Property	Value	Unit	Method
Total alkalinity as KOH	44.7 – 45.3	%	Titration
Sodium	≤ 0.3	%	AES
Carbonate	≤ 0.1	%	Titration
Chloride	≤ 25	mg/kg	Titration
Chlorate	≤ 25	mg/kg	IC
Silicon	≤ 5	mg/kg	ICP - OES
Iron	≤ 4	mg/kg	Photometry
Sulfate	≤ 3	mg/kg	ICP - OES
Calcium	≤ 3	mg/kg	ICP - OES
Nickel	≤ 1	mg/kg	ICP - OES
Arsenic	≤ 1	mg/kg	ICP - OES
Lead	≤ 1	mg/kg	ICP - OES
Mercury	≤ 0.1	mg/kg	AAS
Heavy metals as lead	≤ 1	mg/kg	ICP - OES

All chemical and physical properties provided are no specification items and for informational purposes only. Potassium Hydroxide Solution 45 % is produced in a mercury-free membrane cell process. This product complies with Food Directive 2012/231/EC.

Disclaimer

This information and all further technical advice are based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.

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