

# POTASSIUM HYDROXIDE SOLUTION, 50 %

## GENERAL INFORMATION

<b>Chemical Identity</b>	Potassium Hydroxide Solution Caustic Potash Lye 50 % KOH in water
<b>CAS No.</b>	1310-58-3
<b>EINECS No.</b>	215-181-3
<b>Molar Mass</b>	56.1 g/mol
<b>Appearance</b>	clear, colourless solution

## PHYSICAL PROPERTIES

Property	Value (approx.)	Unit
Density (20 °C)	1.51	g/cm <sup>3</sup>
Viscosity (20 °C)	5.5	mPa s
Viscosity (70 °C)	2.0	mPa s
Freezing point	6.0	°C
Boiling point	146.0	°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

The status per country can be viewed online at [www.potassium-derivatives.com](http://www.potassium-derivatives.com).

## CHEMICAL PROPERTIES

Property	Value	Unit	Method
Total alkalinity as KOH	49.7 – 50.3	%	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 50 % is produced in a mercury-free membrane cell process.

### Disclaimer

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