

Potassium Hydroxide 50% Solution

DESCRIPTION

Potassium Hydroxide 50% Solution in water is a colorless, clear, viscous liquid. The product is obtained by the electrolysis of potassium chloride.

Chemical formula: KOH

Molecular weight: 56.1

APPLICATIONS

Uses include detergents/soaps, phosphates, synthesis, silicates and electrolytes.

PHYSICAL PROPERTIES

Appearance	clear, colorless, viscous liquid
Density, g/cm ³ , 20 °C	1.510
Boiling point, °C	146
Freezing point, °C	10

SPECIFICATIONS

Total alkalinity, as KOH, %	50.0 +/- 0.5
Sodium, as NaOH, %, max.	0.5
Chlorides, as Cl ⁻ , mg/kg, max.	25
Sulphates, as SO ₄ ⁻ , mg/kg, max.	10
Carbonate, as K ₂ CO ₃ , %, max.	0.15
Iron, mg/kg, max.	5.0
Heavy metals, as Pb, mg/kg, max.	2.5
Nickel, mg/kg, max.	3.0

SAFETY AND HANDLING INFORMATION

Potassium Hydroxide 50% Solution produces an alkaline reaction that attacks certain metals (including aluminum, copper and their alloys). For specific handling information, please refer to the current material safety data sheet, which is available upon request.

CHEMICAL REGISTRATION NUMBERS

CAS: 1310-58-3 EINECS: 215-181-3 EC Annex I: 019-002-00-8
Listed in inventory: EU, USA, Australia, Canada, China, Japan, Korea, Philippines, and Switzerland



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