

CERTIFICATE OF ANALYSIS

Standard product specification — applicable to all consignments of this product and grade supplied by Scapex Exports Pvt. Ltd., manufacturer and supplier of quality chemicals.

Product Name	Potassium Hydroxide Solution
C.A.S. Number	1310-58-3
Molecular Formula	HKO
Molecular Weight	56.11
Grade / Standard	45% Solution
Physical Form	Clear colorless liquid
Product Category	Acids & Alkalis
Country of Origin	India

Structural Formula
$\text{HO}^- \quad \text{K}^+$

ANALYTICAL RESULTS

S. No.	Test Parameter	Specification	Result	Method
1	Description	Clear colorless liquid	Complies	Visual
2	Identification	Conforms to the structure of the substance	Complies	FTIR / Chemical test
3	Assay	Not less than 45.0 % w/w	46.17	Titrimetry / Instrumental
4	Specific Gravity at 25 °C	As per specification	Conforms	Hydrometry / ASTM D4052
5	Colour (APHA)	Not more than 30	13	ASTM D1209
6	Chloride (as Cl)	Not more than 0.01 % w/w	0.0021	Turbidimetry / IC
7	Sulphate (as SO ₄)	Not more than 0.02 % w/w	0.0025	Turbidimetry / IC
8	Iron (as Fe)	Not more than 20 ppm	3.0 ppm	ICP-OES / AAS
9	Heavy Metals (as Pb)	Not more than 10 ppm	Less than 5 ppm	ICP-OES
10	Structure	Conforms to reference structure	Complies	FTIR / NMR

Remarks Material supplied against this specification is analysed on every production lot and conforms to the limits stated above in all tested parameters. Results shown are the typical values obtained for this grade. Retained samples are held against every export consignment. Store in tightly closed original packing, in a cool, dry, well-ventilated place away from incompatible materials and direct sunlight.	Checked and Approved by Prem Panchal Quality Assurance Scapex Exports Pvt. Ltd.
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This document sets out the standard specification for the product named above and applies to all consignments of this grade. It is issued by Scapex Exports Pvt. Ltd. as manufacturer and supplier. Refer to the Material Safety Data Sheet (MSDS) before handling.