



PRODUCT SPECIFICATIONS SHEET

Product Name Potassium Hydroxide
 Grade ACS/NF/EP/BP Grade
 Catalog # 287ACSNFEPBP

TEST	MONO-GRAPH	SPECIFICATION	TYPICAL RESULT
Assay	ACS	NLT 85.0%	86.5 %
Assay – Total Alkali	NF	NLT 85.0% of total alkali	86.5 %
Assay – Content of Potassium	NF	NLT 59.9%	60.3 %
Appearance of solution	EP/BP	The solution is clear and colourless	Pass
Potassium Carbonate (K ₂ CO ₃)	ACS	2.0% max.	0.4 %
Potassium Carbonate (K ₂ CO ₃)	NF	3.5% max.	0.4 %
Carbonates	EP/BP	Maximum 2.0% calculated as K ₂ CO ₃	0.4 %
Chloride (Cl)	ACS	0.01% max.	LT 0.01%
Chlorides	EP/BP	Maximum 200 ppm	LT 100 ppm
Nitrogen Compounds (as N)	ACS	0.001% max.	LT 0.001%
Phosphate (PO ₄)	ACS	5ppm max.	LT 5 ppm
Phosphates	EP/BP	Maximum 100 ppm	LT 5 ppm
Sulfate (SO ₄)	ACS	0.003% max.	LT 0.003%
Sulfates	EP/BP	Maximum 200 ppm	LT 30 ppm
Heavy Metals (by ICP-OES)	ACS	0.001% max.	LT 0.001%
Iron (Fe)	ACS	0.001% max.	LT 0.001%
Iron	EP/BP	Maximum 10 ppm	LT 10 ppm
Nickel (Ni)	ACS	0.001%, max	LT 0.001%
Calcium (Ca)	ACS	0.005%, max	LT 0.005%

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Form: Potassium Hydroxide, ACS/NF/EP/BP, Rev 1.0, 04 Jan 2023, PJM



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TEST	MONO-GRAPH	SPECIFICATION	TYPICAL RESULT
Magnesium (Mg)	ACS	0.002% max.	LT 0.002%
Sodium (Na)	ACS	0.05% max.	LT 0.05%
Limit of Sodium	NF	NMT 1.0%	LT 1.0%
Sodium	EP/BP	Maximum 1.0%	LT 1.0%
Identification A – Potassium	NF	To Pass Test	Pass
Identification B – Potassium	EP/BP	1 mL of solution A prepared in identification test A gives reaction of potassium	Pass
Identification B - pH	NF	NLT 10.5	Pass
Identification A – pH	EP/BP	Minimum 10.5	Pass
Insoluble Substances	NF	To Pass Test	Pass

This product is for further commercial manufacturing, laboratory, or research use, and may be used as a process solvent for pharmaceutical purposes. It is not intended for use as an active ingredient in drug manufacturing nor as a medical device or disinfectant. Appropriate/legal use of this product is the responsibility of the user.