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**Product Specification**

Product Name:

Potassium hydroxide ACS reagent, ≥85%, pellets

**Product Number:** 221473

KOH

CAS Number: 1310-58-3

MDL: MFCD00003553

Formula: HKO

Formula Weight: 56.11 g/mol

| TEST   | Specification         |
|--|-----------------------|
| Appearance (Color)                                   | White                 |
| Appearance (Form)                                    | Pellets               |
| X-Ray Diffraction                                    | Conforms to Structure |
| Titration by HCL (% KOH)                             | ≥85.00 %              |
| Titration by HCL (% K <sub>2</sub> CO <sub>3</sub> ) | ≤2.00 %               |
| Chloride Content                                     | ≤0.01 %               |
| Iron (Fe)  | ≤0.001 %              |
| Heavy Metal (As Ag)                                  | ≤0.001 %              |
| Sodium (Na)  | ≤0.05 %               |
| Nitrogen Compounds                                   | ≤0.001 %              |
| Nickel (Ni)  | ≤0.001 %              |
| Phosphate  | ≤5 ppm                |
| Sulfate  | ≤0.003 %              |

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at [Sigma-Aldrich.com](http://Sigma-Aldrich.com). For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.

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| <b>TEST</b>  | <b>Specification</b>                   |
|--|--|
| Calcium (Ca)   | ≤0.005 %                               |
| Magnesium (Mg)   | ≤0.002 %                               |
| Note<br>Material Typically Contains 10%-15% Water<br>Meets ACS Tenth Edition | Confirmed<br>Current ACS Specification |
| Recommended Retest Period<br>2 Years   | -----                                  |

**Remarks:**

Specification Date : 08/27/2010

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