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Brand: Honeywell Riedel-de Haën  
 Product: 33539  
 Lot No: K2860  
 Production date: 12.Oct.2020  
 Rec. Retest Date: 19.Apr.2025

2-Propanol puriss. p.a., ACS reagent, reagent ISO, reagent Ph. Eur., 99.8% (GC)

| Parameter   | Specification | Units | Result      | Units |
|---|---------------|-------|-------------|-------|
| assay (GC)  | min. 99.8     | %     | 99.99       | %     |
| boiling range                                     | 81 - 83       | °C    | 82.1 - 82.6 | °C    |
| density (D 20/4)                                  | 0.784-0.786   |       | 0.7856      |       |
| refractive index (n 20/D)                         | 1.3770-1.3780 |       | 1.37708     |       |
| non-volatile matter                               | max. 0.001    | %     | <0.001      | %     |
| water (Karl Fischer)                              | max. 0.1      | %     | 0.01        | %     |
| free acid (as C <sub>2</sub> H <sub>5</sub> COOH) | max. 0.00074  | %     | <0.00074    | %     |
| free alkali (as NH <sub>3</sub> )                 | max. 0.00017  | %     | <0.00017    | %     |
| aluminium (Al)                                    | max. 0.00005  | %     | <0.00005    | %     |
| boron (B)   | max. 0.000002 | %     | <0.000002   | %     |
| barium (Ba)                                       | max. 0.00001  | %     | <0.00001    | %     |
| bismuth (Bi)                                      | max. 0.00001  | %     | <0.00001    | %     |
| calcium (Ca)                                      | max. 0.00005  | %     | <0.00005    | %     |
| cadmium (Cd)                                      | max. 0.000005 | %     | <0.000005   | %     |
| cobalt (Co)                                       | max. 0.000002 | %     | <0.000002   | %     |
| chromium (Cr)                                     | max. 0.000002 | %     | <0.000002   | %     |
| copper (Cu)                                       | max. 0.000002 | %     | <0.000002   | %     |
| iron (Fe)   | max. 0.00001  | %     | <0.00001    | %     |
| potassium (K)                                     | max. 0.00005  | %     | <0.00005    | %     |
| lithium (Li)                                      | max. 0.00001  | %     | <0.00001    | %     |
| magnesium (Mg)                                    | max. 0.00001  | %     | <0.00001    | %     |
| manganese (Mn)                                    | max. 0.000002 | %     | <0.000002   | %     |
| molybdenum (Mo)                                   | max. 0.00001  | %     | <0.00001    | %     |
| sodium (Na)                                       | max. 0.0001   | %     | <0.0001     | %     |
| nickel (Ni)                                       | max. 0.000002 | %     | <0.000002   | %     |
| lead (Pb)   | max. 0.00001  | %     | <0.00001    | %     |

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| Parameter                                       | Specification | Units | Result    | Units |
|---|---------------|-------|-----------|-------|
| tin (Sn)  | max. 0.00001  | %     | <0.00001  | %     |
| strontium (Sr)                                  | max. 0.00001  | %     | <0.00001  | %     |
| zinc (Zn)                                       | max. 0.00001  | %     | <0.00001  | %     |
| APHA  | max. 10       |       | <10       |       |
| carbonyl compounds (as CO)                      | max. 0.005    | %     | <0.005    | %     |
| carbonyl compounds (ACS)                        | complying     |       | complying |       |
| ethanol (GC)                                    | max. 0.01     | %     | <0.01     | %     |
| methanol (GC)                                   | max. 0.1      | %     | <0.1      | %     |
| KMnO <sub>4</sub> red. matter (as O)            | max. 0.0005   | %     | <0.0005   | %     |
| solubility in water                             | complying     |       | complying |       |
| peroxides (as H <sub>2</sub> O <sub>2</sub> )   | max. 0.00034  | %     | <0.00034  | %     |
| reaction against H <sub>2</sub> SO <sub>4</sub> | complying     |       | complying |       |



QC Release Date: 26.Oct.2020

The minimum shelf life is based on the current knowledge and holds only for proper storage conditions in the originally closed flasks/ packages.

We herewith confirm that the delivery is effected according to the technical delivery conditions agreed.

Particular properties of the products or the suitability for a particular area of application are not assured.

We guarantee a proper quality within our General Conditions of Sales.

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Quality Management

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