

Hydrochloric Acid, 36.5 – 38.0%
BAKER ANALYZED® A.C.S. Reagent



Material No.: 9551-80
Batch No.: 0000141784
Manufactured Date: 2016/04/27
Retest Date: 2021/04/26

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
Appearance	Passes Test	PT
Assay (as HCl) (by acid-base titrn)	36.5 – 38.0 %	36.9
Color (APHA)	<= 10	2
Extractable Organic Substances	<= 5 ppm	< 1
Free Chlorine (as Cl ₂)	<= 1 ppm	< 1
Residue after Ignition	<= 3 ppm	< 1
Specific Gravity at 60°/60°F	1.185 – 1.192	1.186
Bromide (Br)	<= 0.005 %	< 0.001
Phosphate (PO ₄)	<= 1 ppm	< 1
Sulfate (SO ₄)	<= 0.5 ppm	< 0.1
Sulfite (SO ₃)	<= 0.8 ppm	< 0.1
Ammonium (NH ₄)	<= 3 ppm	< 1
Trace Impurities – Aluminum (Al)	<= 100.0 ppb	12.5
Arsenic and Antimony (as As)	<= 5 ppb	< 1
Trace Impurities – Boron (B)	<= 50.0 ppb	< 5.0
Trace Impurities – Calcium (Ca)	<= 200.0 ppb	99.7
Trace Impurities – Chromium (Cr)	<= 100.0 ppb	< 10.0
Trace Impurities – Copper (Cu)	<= 100.0 ppb	< 10.0
Trace Impurities – Gold (Au)	<= 100.0 ppb	< 10.0
Heavy Metals (as Pb)	<= 100 ppb	<5
Trace Impurities – Iron (Fe)	<= 100.0 ppb	< 10.0
Trace Impurities – Lead (Pb)	<= 50.0 ppb	< 5.0
Trace Impurities – Magnesium (Mg)	<= 300.0 ppb	< 30.0
Trace Impurities – Manganese (Mn)	<= 300.0 ppb	< 30.0

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Test	Specification	Result
Trace Impurities – Mercury (Hg)	<= 5.0 ppb	< 0.5
Trace Impurities – Nickel (Ni)	<= 100.0 ppb	< 10.0
Trace Impurities – Potassium (K)	<= 300.0 ppb	< 30.0
Trace Impurities – Sodium (Na)	<= 300.0 ppb	149.1
Trace Impurities – Tin (Sn)	<= 300.0 ppb	< 30.0
Trace Impurities – Titanium (Ti)	<= 300.0 ppb	< 30.0
Trace Impurities – Zinc (Zn)	<= 100.0 ppb	< 10.0

For Laboratory, Research or Manufacturing Use
Meets Reagent Specifications for testing USP/NF monographs

Country of Origin: TW



Phillipsburg, NJ 9001:2008, 14001:2004, FSSC 22000
Paris, KY 9001:2008
Mexico City, Mexico 9001:2008
Deventer, The Netherlands 9001:2008, 14001:2004, 13485:2003
Gliwice, Poland 9001:2008
Selangor, Malaysia 9001:2008
Dehradun, India, 9001:2008, 14001:2004, 13485:2003
Mumbai, India, 9001:2008, 17025:2005
Panoli, India 9001:2008



Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.573.2600
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