



# Product Specifications

**PRODUCT NAME:** Ammonium Hydroxide 29%  
CMOS

**CHEMICAL FORMULA:** NH4OH

**Product Code:** 049400-90000  
**F.W.:** 35.0500  
**CAS No:** 1336-21-6  
**Density:** 0.90

ITEM	SPECIFICATIONS
Appearance	Clear, free of suspended matter
Assay (NH3)	28.0 - 30.0%
Color (APHA)	7 max.
Carbon dioxide (CO2)	10 ppm max.
Substances Reducing Permanganate	To Pass Test
Chloride (Cl)	0.3 ppm max.
Phosphate (PO4)	0.2 ppm max.
Total sulfur (as SO4)	0.8 ppm max.
Aluminum (Al)	10 ppb max.
Arsenic and Antimony (as As)	30 ppb max.
Barium (Ba)	5 ppb max.
Beryllium (Be)	10 ppb max.
Bismuth (Bi)	20 ppb max.
Boron (B)	10 ppb max.
Cadmium (Cd)	5 ppb max.
Calcium (Ca)	20 ppb max.
Chromium (Cr)	5 ppb max.
Cobalt (Co)	1 ppb max.
Copper (Cu)	5 ppb max.
Gallium (Ga)	10 ppb max.
Germanium (Ge)	50 ppb max.
Gold (Au)	10 ppb max.
Iron (Fe)	10 ppb max.
Lead (Pb)	10 ppb max.
Lithium (Li)	10 ppb max.
Magnesium (Mg)	5 ppb max.
Manganese (Mn)	5 ppb max.
Molybdenum (Mo)	10 ppb max.
Nickel (Ni)	5 ppb max.
Niobium (Nb)	10 ppb max.
Potassium (K)	100 ppb max.
Silicon (Si)	15 ppb max.
Silver (Ag)	5 ppb max.
Sodium (Na)	100 ppb max.
Strontium (Sr)	10 ppb max.
Tantalum (Ta)	10 ppb max.
Thallium (Tl)	20 ppb max.
Tin (Sn)	20 ppb max.
Titanium (Ti)	5 ppb max.
Vanadium (V)	10 ppb max.



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ITEM	SPECIFICATIONS
Zinc (Zn)	5 ppb max.
Zirconium (Zr)	10 ppb max.
Particles (>1.0 micron at point of fill)	25 particles/mL max.
Particles (>0.5 micron at point of fill)	100 particles/mL max.

**Remarks:**  
\*Particle count certified for material in glass or Teflon bottles only.

The above are the specifications, ranges and limits set for this product.

  
Eddy Santiago  
Quality Assurance Manager

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