

Grade Definitions

ACS—Reagents meeting the requirements of the American Chemical Society Committee on Analytical Reagents. The specifications listed in this catalog are based on the ACS Reagent Chemicals Ninth Edition.

AR—The standard Mallinckrodt grade of analytical reagents; suitable for laboratory and general use. If the reagent also meets the requirements of the American Chemical Society Committee on Analytical Reagents, it will be denoted as an AR (ACS) reagent.

AR (ACS) Primary Standard—An analytical reagent of exceptional purity that is specially manufactured for standardizing volumetric solutions and preparing reference standards.

AR Select—A line of acids specifically developed for trace metal analysis; analyzed for up to 32 metals in the low ppb range.

AR Select Plus—The purest grade of Mallinckrodt acids for trace metal analysis. AR Select Plus acids are packaged in glass bottles. These products are tested for 40 elements in the high ppt to low ppb range, ensuring low background interference.

Certified—A line of stains certified by the Biological Stain Commission.

ChromAR—Solvents that meet ACS specifications and are suitable for liquid chromatography and UV-spectrophotometry.

CP (Chemically Pure)—Products of purity suitable for use in general applications.

FCC—Products that meet the requirements of the current Food Chemical Codex.

GenAR—A line of reagents specifically developed for use in biotechnology and genetic research.

Lab Grade—A line of solvents suitable for histology methods and general laboratory applications.

Nanograde—Solvents designed for organic residue extraction/concentration procedures that utilize GC/ECD and GC/FID methods.

NF—Chemicals manufactured under current Good Manufacturing Practices (cGMP) and meeting the requirements of the National Formulary.

OR—Organic reagents that are suitable for research applications.

Practical—Products of a purity suitable for use in general applications.

Purified—Chemicals of good quality where there are no current compendia. Most purified chemicals were formerly listed in the USP and NF compendium. The specifications from the former compendia listing have been retained wherever possible.

SilicAR—Silica gel products with physical and chemical characteristics that are optimal for column and thin layer chromatography.

SpectrAR—A line of solvents designed for UV-Spectrophotometric applications.

StandARd—Prepared volumetric and analytical solutions. These solutions are suitable for use in ACS, USP and NF compendial methods and general laboratory applications.

Technical—A grade suitable for general industrial use.

UltimAR—Solvents that meet ACS specifications for liquid chromatography, UV-spectrophotometry, and general purpose use. They are also tested by GC/ECD and GC/FID for use in extraction/concentration sample clean-up protocols for trace-level organic impurities.

USP—Chemicals manufactured under current Good Manufacturing Practices (cGMP) and which meet the requirements of the US Pharmacopeia.

USP/GenAR—A line of chemicals manufactured under cGMP, meet the requirements of the US Pharmacopeia, meet European Pharmacopeia (PhEur, EP) and British Pharmacopeia (BP) specifications where designated, and are endotoxin (LAL) tested where appropriate