Potassium Bicarbonate U.S.P, ACS and Food Grades

TECHNICAL INFORMATION

U.S.P. Grade potassium bicarbonate conforms to the United States Pharmacopeia specifications and guarantees the high quality necessary for use in drug products. It is manufactured in compliance with the Food and Drug Administration’s current Good Manufacturing Practices (cGMP).

ACS Grade potassium bicarbonate meets the standards necessary for reagent quality chemicals that conform to the American Chemical Society specifications.

Food Grade potassium bicarbonate is designed to meet the US Food Safety Modernization Act (FSMA) requirements and is produced at an SQF Certified Facility.

General Properties of ARMAND PRODUCTS Brand Potassium Bicarbonate

Empirical Formula .................................................KHCO₃
CAS Number ........................................................298 - 14 - 6
Molecular Weight .................................................100.12
Appearance .......................................................White, granular powder
Solubility in Water ................................................17% by weight at 32°F (0°C)
........................................................................23% by weight at 68°F (20°C)
........................................................................30% by weight at 104°F (40°C)
........................................................................37% by weight at 140°F (60°C)
Solubility in Alcohol ..............................................Insoluble
Alkali Equivalent ..................................................1 lb. KHCO₃ = 0.470 lb. K₂O
Acid Equivalent ..................................................1 lb. KHCO₃ = 0.365 lb. HCl
Carbon Dioxide Equivalent ....................................1 lb. KHCO₃ = 0.440 lb. CO₂
pH, 1% solution at 77°F (25°C) ..............................Approximately 8.2
Thermal Decomposition ........................................Decomposes without melting into
........................................................................K₂CO₃, H₂O and CO₂. Decomposes rapidly at 350°F (176°C)

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