



Armand Products Company
469 North Harrison Street • Princeton, NJ 08543-5297
Phone (800) 522-0540 • Fax (800) 335-8861
Technical Service
Phone (716) 278-7071 • Fax (716) 278-7297

POTASSIUM BICARBONATE U.S.P., ACS, TECHNICAL GRADES

TECHNICAL INFORMATION

U.S.P. Grade potassium bicarbonate conforms to United States Pharmacopoeia specifications and guarantees the high quality necessary for use in drug products. Pharmaceutical grade quality potassium bicarbonate is manufactured in compliance with the Food and Drug Administration's current Good Manufacturing Practices.

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

Technical Grade potassium bicarbonate is designed to meet the requirements of industrial applications with a flow aid. The flow aid, magnesium oxide, preferentially absorbs moisture to reduce caking and leave the potassium bicarbonate free flowing.

General Properties of ARMAND PRODUCTS Brand Potassium Bicarbonate

Empirical Formula	KHCO_3
CAS Number	298 - 14 - 6
Appearance	White granular powder
Taste	Slightly salty
Molecular Weight	100.12
Thermal Decomposition	Decomposes without melting into K_2CO_3 , H_2O and CO_2 . Decomposes rapidly at 350°F (176°C).
Solubility in Water	See figure on next page.
Solubility in Alcohol	Insoluble
Alkali Equivalent	1 lb. KHCO_3 = 0.470 lb. K_2O
Acid Equivalent	1 lb. KHCO_3 = 0.365 lb. HCl
Carbon Dioxide Equivalent	1 lb. KHCO_3 = 0.440 lb. CO_2
pH, 1% Solution at 77°F (25°C)	Approx. 8.2
Flow Agent (Technical Grade only)	MgO (less than 0.99%)

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