



## Church & Dwight Co., Inc. Arm & Hammer™ Flow K™ Potassium Bicarbonate

Reviewed: February 16, 2024	Test Method	
Description		Flow K® Potassium Bicarbonate is a food grade product comprised of potassium bicarbonate USP and a small amount of magnesium oxide USP flow aid is included to maintain handling characteristics.
Identification	USP	Responds to the test for potassium.
Assay-dry basis	USP	98.75 - 101.0% (as KHCO <sub>3</sub> )
Flow Aid	C&D TM009465	0.5 - 0.75% (as MgO)

### General Properties (Not Specifications)

Appearance	White crystalline powder
Taste	Slightly salty.
Thermal Decomposition	Decomposes without melting into K <sub>2</sub> CO <sub>3</sub> , CO <sub>2</sub> , H <sub>2</sub> O
Bulk Density	65 lb / ft. <sup>3</sup>
Solubility in water	Complete except for flow aid
Solubility in alcohol	Insoluble
Alkali Equivalent	1 lb. Flow K® = 0.470 lb K <sub>2</sub> O
Acid Equivalent	1 lb. Flow K® = 0.365 lb HCl
Carbon Dioxide Equivalent	1 lb. Flow K® = 0.440 lb CO <sub>2</sub>
pH 1% aqueous soln at 77°F	Approximately 8.3

### Granulation (Typical)

		Ro-Tap % Fraction Retained
Sieve Size (USS)	Microns	
40	420	1
80	177	50
100	149	20