GLUCONAL® K-G

Description
GLUCONAL K-G is the anhydrous potassium salt of gluconic acid. It is a white to off-white agglomerated powder, with a faint characteristic odor and a slightly bitter taste.

Specification
- **Product**: potassium gluconate
- **Hydrate form**: anhydrous
- **Form**: agglomerated powder
- **Color fresh**: white to off-white
- **Color (K₂Cr₂O₇)**: max. 4 ppm
- **Assay**: 98.0-103.0 %
  - Assay potassium, as is: 16.2-17.2 %
  - Positive test for gluconate: passes test
  - Positive test for potassium: passes test
  - Clarity (10% solution): max. 4 NTU
- **Heavy metals total**: max. 20 ppm
- **Microbial contamination: TACMC**: max. 1000 CFU/g
- **Microbial contamination: YMYMC**: max. 10 CFU/g
- **Enterobacteriaceae**: absent in 1 g
- **Salmonella**: absent in 50 g
- **Purity**: max. 3.0 % (w/w)
  - Loss on drying: 7.0-8.3
  - pH 10% (w/v): 7.0-8.3
  - Reducing substances/sugar: max. 0.5 % (w/w)
  - Lead: max. 0.5 ppm
  - Arsenic (as As): max. 3 ppm
  - Sieve fraction > 106 µm: min. 80 %
  - Sieve fraction > 180 µm: min. 50 %
  - Sieve fraction > 425 µm: max. 30 %
  - Sieve fraction > 850 µm: max. 5 %
- **Typical properties**: 100g/100ml at 20 °C approx. 7.1
- **Physical-chemical properties**: CH₂OH(CHOH)₄COOK
  - Molecular formula: 234.3
  - Molecular weight: D-gluconic acid potassium salt
  - Chemical name: 600-750 kg/m³
- **Regulatory / Registration**: 299-27-4
  - CAS number: E577 Potassium gluconate
  - EEC Additive number: independent expert panel
  - GRAS status: 577 Potassium gluconate
  - INS: USP, FCC, JECFA, 231/2012/EC

3) Method of analysis according to USP
4) Calculated from assay on as is basis