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## TECHNICAL INFORMATION

Catalog Number: 154723, 154724, 154725, 218295

### Alginic Acid, Sodium Salt

**Molecular Formula:** (C<sub>6</sub>H<sub>7</sub>O<sub>6</sub>Na)<sub>n</sub>

**CAS #:** 9005-38-3

**Source:** *Macrocystis pyrifera* (Kelp)

**Synonyms:** Algin; Sodium alginate; Sodium polymannuronate; Kelgin; Protanal

**Physical Description:** White to cream colored powder

**Solubility:** Soluble in water, forming a viscous, colloidal solution. Insoluble in alcohol and in hydro-alcoholic solutions in which the alcohol content is >30% w/w. Insoluble in chloroform, ether, in aqueous acid solutions when the pH is below 3.

**Description:** A gelling polysaccharide extracted from giant brown seaweed. It is a straight chain, colloidal, polyuronic acid composed mainly of anhydro-b-D-mannuronic acid residues linked in the 1---->4 position. It has been used in the flocculation of solids in water treatment; as sizing agent; thickener; emulsion stabilizer; and a suspending agent.

#### Availability:

Catalog Number	Description	Size
154723	Alginic Acid, sodium salt; High viscosity. Viscosity of a 1% aqueous solution (25°C) is approximately 1000 - 1500 cps	100 g 250 g 500 g 1 kg
154724	Alginic Acid, sodium salt; Medium viscosity. Viscosity of a 1% aqueous solution (25°C) is approximately 600 - 900 cps	100 g 250 g 500 g 1 kg
154725	Alginic Acid, sodium salt; Low viscosity. Viscosity of a 1% aqueous solution (25°C) is approximately ≤300 cps	100 g 250 g 500 g 1 kg
154722	Alginic Acid, Free Acid. Insoluble, but swells in water	100 g 250 g 500 g 1 kg
218295	Sodium Alginate (viscosity not tested for this product)	100 gm

#### References:

- *Merck Index*, 12th Ed., No. 240.
- Tseng, *Chem. Met. Eng.*, v. **52**, 97 (1945)
- G. Bruno, et. al., *Ann. Allergy*, v. **56**, 384 (1986).
- D. A. Rees, E. J. Welsh, *Angew. Chem. Int. Ed.*, v. **16**, 214 (1977).
- A. Askar, *Alimenta*, v. **21**, 165-169 (1982).