



## Technical Data Sheet

<b>MATERIAL:</b>	Poly(acrylic acid)
<b>CATALOG NUMBER:</b>	600
<b>CAS NUMBER:</b>	9003-01-4
<b>DESCRIPTION:</b>	Homopolymer of acrylic acid
<b>FORMULA:</b>	$(C_3H_4O_2)_x$

**TYPICAL PROPERTIES:**

Appearance:	Powder
Approx Mw:	1,250,000
Refractive index:	$n_D^{25}$ 1.527
Density:	1.41
Glass transition temp:	106°C
pH (1% water solution):	2.5-3.0
Solubility:	Dioxane, ethanol, methanol, water

**GENERAL INFORMATION:**

This product is used in applications requiring high carboxylic content without appreciable increase in viscosity. Application areas include paper sizing, drilling fluids and water treatment. Can be neutralized with a variety of reactants including ammonium hydroxide, selected amines, urea and caustic. Neutralized derivatives have been used in a variety of applications including hand creams, toothpastes, shaving creams, latex thickeners and hand cleaners.

**STRUCTURE:**