



## Technical Data Sheet

MATERIAL:	Poly(acrylic acid)															
CATALOG NUMBER:	598															
CAS NUMBER:	9003-01-4															
DESCRIPTION:	Homopolymer of acrylic acid															
FORMULA:	$(C_3H_4O_2)_x$															
TYPICAL PROPERTIES:	<table><tr><td>Appearance:</td><td>Powder</td></tr><tr><td>Approx Mw:</td><td>3,000,000</td></tr><tr><td>Refractive index:</td><td><math>n_D^{25}</math> 1.527</td></tr><tr><td>Density:</td><td>1.41</td></tr><tr><td>Glass transition temp:</td><td>106°C</td></tr><tr><td>pH (1% water solution):</td><td>2.5-3.0</td></tr><tr><td>Solubility:</td><td>Dioxane, ethanol, methanol, water</td></tr></table>		Appearance:	Powder	Approx Mw:	3,000,000	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
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GENERAL INFORMATION:	<p>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.</p>															
STRUCTURE:																

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