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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:

Appearance: Powder
Approx Mw: 3,000,000Refractive 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:

OH

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