

6265 DEAN PARKWAY ONTARIO NY 14519 WWW.SCIPOLY.COM

Technical Data Sheet

MATERIAL: Poly(acrylic acid)

CATALOG NUMBER: 600

CAS NUMBER: 9003-01-4

DESCRIPTION: Homopolymer of acrylic acid

FORMULA: $(C_3H_4O_2)_x$

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:

OH

Technical information and data regarding the composition, properties or use of the products described herein is believed reliable. However, no representation or warranty is made with respect thereto except as made by Sp^2 in writing at time of sale. Sp^2 cannot assume responsibility for any patent liability which may arise from the use of any product in a process, manner or formula not designed by Sp^2 .