



Technical Data Sheet

MATERIAL:	Poly(acrylic acid)
CATALOG NUMBER:	413
CAS NUMBER:	9003-01-4
DESCRIPTION:	Homopolymer of acrylic acid, 25% solids in water
FORMULA:	$(C_6H_{10}O_3)_x$

TYPICAL PROPERTIES:

Appearance:	Liquid
Approx Mw:	240,000
Refractive index:	n_D^{25} 1.527
Density:	1.09 (25°C)
Viscosity:	500-1,500 cp (25°C)
Glass transition temp:	106°C
pH:	2.2-3.0
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: