



## Technical Data Sheet

**MATERIAL:** Polyethyleneimine

**CATALOG NUMBER:** 135

**CAS NUMBER:** 9002-98-6

**DESCRIPTION:** 50% solids in water

**FORMULA:**  $(C_2H_5N)_x$

**TYPICAL PROPERTIES:**

Appearance:	Viscous liquid
Approx Mn:	60,000
Density:	1.07 (20°C)
Viscosity:	25,000 cp (20°C)
Pour point:	-3°C
pH:	12
Freezing point:	-20°C
Solubility:	Dilutable with water, methanol, ethanol, isopropanol

**GENERAL INFORMATION:** Polyethyleneimines have been used as adhesion promoters, lamination primers, fixative agents, flocculents, cationic dispersants, stability enhancers and surface activators. Application areas include detergents, packaging, oilfield, adhesives, water treatment, inkjet inks, printing inks, dyes, cosmetics, paper industry.

**STRUCTURE:** PEI is a highly branched polymer made by the acid catalyzed polymerization of ethyleneimine. The polymer contains approximately 25% primary, 50% secondary and 25% tertiary amine groups with the general structure given below.

