



## Technical Data Sheet

<b>MATERIAL:</b>	Polystyrene sulfonate, sodium salt
<b>CATALOG NUMBER:</b>	576
<b>CAS NUMBER:</b>	25704-18-1
<b>DESCRIPTION:</b>	Sulfonated polystyrene, sodium salt
<b>FORMULA:</b>	$(C_8H_7O_3SNa)_x$
<b>TYPICAL PROPERTIES:</b>	
Appearance:	Powder
Approx Mw:	500,000
Viscosity:	170 cp (10% solution)
Decomposition temp:	450°C
pH:	6-10 (10% solution)
Solubility:	Lower glycols and water

**GENERAL INFORMATION:** Product is an anionic polyelectrolyte of sodium polystyrene sulfonate prepared under conditions that yield a high degree of substitution. The high degree of sulfonation imparts properties to the polymer that make it suitable for a variety of applications; in water treatment as scale control additives and dispersants; in oil fields as flocculants, fluid loss control agents and viscosifiers; and in photographic imaging as complexers and antistats.

### STRUCTURE: