

Encouraging Tomorrow's Chemists

Polymers

Preparation recipes

A. Slime

Polyvinyl alcohol solution:

Heat 1 L of water to not more than 90°C. While stirring, add 40 g polyvinyl alcohol. Stir until dissolved to yield 40 tubes of 25 mL.

Borax solution:

Dissolve 76 g Borax in 1 L water to yield 200 vials of 5 mL solution

B. Superballs

Sodium silicate solution:

Available from Aldrich in solution

Ethanol solution:

Just use 95% EtOH

D. Nylon Pulling

Hexamethylene diamine solution:

Dissolve 3 g hexamethylene diamine and 1 g NaOH in 50 mL of water

Sebacoyl chloride solution:

Dissolve 2 mL sebacoyl chloride solution in 50 mL hexane