

Hydrogen bonds

Making slime

'Slime' is a polymer made from two monomers. The monomers are borate ions, $[\text{B}(\text{OH})_4]^-$ and ethenol, $\text{CH}_2\text{CH}(\text{OH})$. You can make it easily by following the instructions provided for a 'PVA polymer slime'.

After making the slime, try answering the questions below.

Questions

1. What properties does slime have?
2. What is the structure of slime? Use the monomer formulae to help work this out.
3. What types of intermolecular bonds might be present in slime?
4. What uses can you think of for slime?
5. How might changing the properties slightly make the polymer more useful?