

"H⁺ ion has exceptionally high conductivity in aqueous medium." - Explain by suggesting a suitable mechanism for ion-conductance.

Solution:



In water solution "H⁺ ion is solvated into hydroxonium ion H₃O⁺. Hydroxonium ion H₃O⁺ is associated with other water molecules by hydrogen bonds. As shown on the picture, the proton transfers from the first to the last oxygen atom by chain mechanism.