

The diagram illustrates the chemical structure of a phospholipid, a key component of cell membranes. It consists of a hydrophilic head and two hydrophobic tails. The head is formed by a phosphate group (P) bonded to a choline group (N<sup>+</sup> and O<sup>-</sup>). The tails are composed of two fatty acid chains, each with a carboxylate group (COO<sup>-</sup>) and a hydrocarbon chain. The structure is shown in a simplified, skeletal representation.