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===== The synthesis of Benzanilide from Aniline is a classic example of an acylation reaction. This process involves the insertion of a benzoyl moiety into a compound containing an active hydrogen atom, such as hydroxyl (-OH), primary amino (-NH2), or secondary amino (-NHR) groups. The benzoylation reaction is similar to acetylation but uses benzoyl chloride instead of acetic acid. The Schotten-Baumann reaction, which involves the use of benzoyl chloride and aqueous NaOH, is a key step in this synthesis. This reaction bears resemblance to acetylation but requires specific conditions due to the properties of amines and acid chlorides. The procedure for synthesizing benzanilide from aniline involves adding aniline to 10% aqueous sodium hydroxide solution and then adding benzoyl chloride, followed by vigorous shaking. The reaction is monitored by the disappearance of the pungent smell of benzoyl chloride. After completion, the mixture is filtered, washed with water, and recrystallized from cold alcohol or water to obtain benzanilide as colorless crystals with a melting point of 163°C. =====