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## Amide synthesis of acetophenetidin

In order to continue to use our website, we ask you to confirm your identity as a person. Thank you so much for your cooperation. The temperature at which the solid phase is in balance with the liquid phase Range of the melting point of the pure joint... Sharp, that is, it has a narrow range Why the melting point of the unclean compound is lower than that of the pure compound? The impurity breaks the crystal lattice of the sample, so less energy is needed to convert the solid phase into a liquid phase. What are the three possible causes of an inaccurate melting point? Poor heat transfer to the sample, sagging or contraction of crystals is mistaken for melting, the presence of a solvent causing the crystals to sweat before melting occurs What is the melting range for pure benzoic acid? What is the melting range for mandelic acid? How high should the sample be in the capillary tube for melting? 1-2 mm, about the same height as the width of a capillary tube This type of spectroscopy give us information that functional groups are present in a molecule This type of spectroscopy gives us information about the structure and communication in the molecule Refers to the number of hydrogens on a specific carbon (in H-NMR) Refers to the number of hydrogens on adjacent carbon (H-NMR) What are two different ways of synthesis? Williamson-Ether Synthesis and Amide Synthesis (we only had an Amide route in the lab) What are the reactionaries in the amide way of synthesis of acetofenethidine? p-phenetidine and acetic anhydride What are solvents? (идет выше стрелки реакции в уравнении? Каковы продукты синтеза ацетифенетидина? Для чего используется перекристаллизация? Каковы три основных критерия выбора органического растворителя для перекристаллизации? Он должен растворять как соединение, так и примеси в точке кипения, желаемое соединение должно быть нерастворимым при низких температурах, а примеси должны быть растворимыми и оставаться в растворе при низких температурах. Как работает перекристаллизация? Нечистый образец растворяется в минимальном количестве растворителя в точке кипения Insoluble impurities are removed by hot gravitational filtration, hot and saturated solution is allowed to slowly cool to room temperature, and then placed in an ice bath for maximum crystal formation. The crystals are collected by vacuum filtration. What are the safety issues with acetic anhydride and HCl? Can cause burns, should avoid breathing fumes and skin contact What is the safety problem with p-phenetidine? What are the safety concerns with sodium methamphetamine? What is the safety issue of ligroin and ethanol? What color is pure p-phenethytin? What is the purpose of sodium acetate solution in the synthesis of acetofenethidine? It acts as a buffer to control acidity and maximize yields. Why HCl is used instead simple d.i. Water in the synthesis of acetofenethidine? HCl is more polar and drives the reaction to the right, protonating the amine group and enhancing solubility. Why is Amide route the green way? It produces a large raw mass. The technique used to remove individual components from the mixture is usually based on differences in solubility or chemical reactivity What solvent is commonly used for solid fluid extraction? What makes CO2 a green alternative to traditional organic solvents? It is readily available, non-toxic, non-flammable, and safe for the environment to be intractable in each other Hello chemhelp, I need help figuring out the mechanism for a specific step in amide synthesis of acetofenethidine for my laboratory report. Here's the reaction: I can't figure out is the second step where they have p-phenetidine hydrochloride and they add acetic anhydride. How does Cl get H? How did the acetic anhydride split in half with O grabbing H? Basically, I'm looking for help figuring out the mechanism of the second step. Thank you thank you amide synthesis of acetophenetidin mechanism

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