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Liquid Chromatography Questions & Answers

Chromatography Questions & Answers

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Liquid Chromatography Questions & Answers

1. Which of the following is the disadvantage of reciprocating pump used in liquid chromatography?

- a) Produces pulsed flow
- b) Corrosive components
- c) Does not have small hold-up value
- d) Does not have moderate flow rate

Answer: a

Explanation: The disadvantage of reciprocating pump used in liquid chromatography is that it produces pulsed flow. Therefore, the flow must be damped before it affects the column.

2. Which of the following is not a disadvantage of Pneumatic pumps used in liquid chromatography?

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web may 1 2004 oxidation of toluene using aqueous potassium permanganate was studied under heterogeneous condition in the presence of hydrodynamic cavitation and compared with the results of the reaction under acoustic cavitation

can acidified or neutral KMnO_4 oxidise toluene to benzoic acid - Jan 08 2023

web oct 15 2014 1 answer sorted by 6 here are the three equations describing the reduction of manganese and concurrent oxidation of whatever substrate may be present under basic neutral and acidic conditions respectively $\text{Mn}^{7+} \rightarrow \text{Mn}^{4+}$ $\text{Mn}^{7+} \rightarrow \text{Mn}^{2+}$ $\text{Mn}^{7+} \rightarrow \text{Mn}^{4+}$ basic $\text{Mn}^{7+} \rightarrow \text{Mn}^{4+}$ $\text{Mn}^{7+} \rightarrow \text{Mn}^{2+}$ $\text{Mn}^{7+} \rightarrow \text{Mn}^{4+}$ basic

what is the mechanism of toluene oxidation by KMnO_4 reddit - Jul 14 2023

web mar 15 2019 what is the mechanism of toluene oxidation by KMnO_4 it is quite simple reaction that KMnO_4 can oxidize benzylic hydrogen in toluene and synthesize benzoic acid however i cannot find exact mechanism of reaction in

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web description treatment of an alkylbenzene with potassium permanganate results in oxidation to give the benzoic acid

notes the position directly adjacent to an aromatic group is called the benzylic position the reaction only works if there is a hydrogen attached to the carbon examples

oxidation of alkylarenes to the corresponding acids using - Mar 10 2023

web may 1 2004 the oxidation of toluene by aq KMnO_4 under hydrodynamic cavitation was taken as a model reaction and various parameters have been optimized the oxidation of toluene by aq KMnO_4 gives benzoic acid scheme 1 KMnO_4 in turn is reduced to MnO_2 the reaction did not give any other byproduct