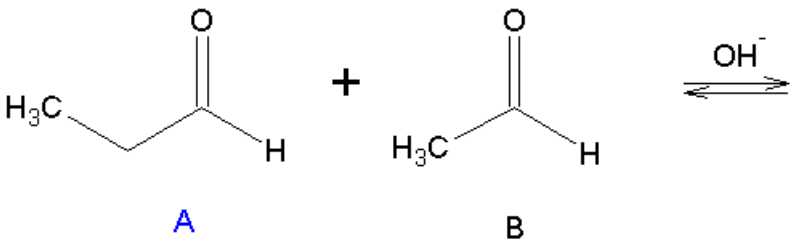
CONCEPT: CROSSED ALDOL

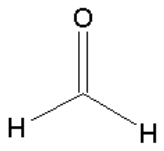
When we run condensation reactions on two different ketones or aldehydes, mixed products are difficult to avoid.

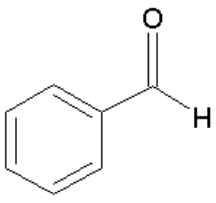


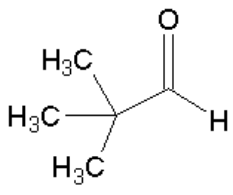
A + B	B + A
A + A	B + B

In general, condensation reactions with two different carbonyls work best when one carbonyl is ***nonenolizable***.

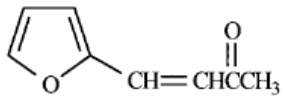
Nonenolizable Carbonyls:







PRACTICE: Give the structure of the aldehydes or ketones used to create the product prepared by a crossed aldol condensation reaction.



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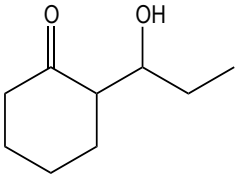

PRACTICE: What product can be isolated from the following aldol condensation reaction?