



A2 4.5/D

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# ACYLATION REACTIONS



Aim Your teacher will show you some acylation reactions.

Safety

	ethanoyl chloride hydrogen chloride		phenylamine		ethanol ethanoyl chloride		Be very cautious of reaction and fumes evolved
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Method

Your teacher will cautiously acylate the following compounds as shown in a fume cupboard.

Water Put about 5 cm<sup>3</sup> of water into a small beaker. Add a few drops of ethanoyl chloride.

Ethanol Repeat the above with ethanol instead of water.

Ammonia Repeat the above the conc ammonia instead of water.

Phenylamine Place five drops of phenylamine into a beaker and add a few drops of ethanoyl chloride.

Questions

Write an equation for each reaction, showing the structure of all compounds.

*water*

*ethanol*

*ammonia*

*phenylamine*