

## G624: Chemicals for a Purpose – Sample Assignment C

<b>Unit Name:</b> Chemicals for a Purpose	<b>Unit Number:</b> G624
<b>Assignment Title:</b> Catalysts	<b>Assignment:</b> G624 Sample Assignment C
<b>Date Set:</b>	<b>Due Date:</b>
<b>Assessment Objective(s):</b> AO2(b)	

### Vocational Brief:

A catalyst is a substance that alters the rate of a chemical reaction but is chemically unchanged at the end of the reaction.

Industrially, the use of catalysts not only increases the rate of the reaction but will make the process more economically viable.

What are catalysts, how do they work and how useful are they?

### Task 1:

The aim of this task is to carry out research into the role and uses of catalysts and present the results of your research work.

### Task 2:

For this task you need to:

- outline one industrial process – give the raw materials/products formed/conditions under which it runs/include the catalyst used.

For higher marks, include:

- equations for all the stages that take place in your chosen industrial process
- energy costs and how catalysts affect them
- waste products and how they are dealt with or used
- the sustainability of the process/raw materials.

A report on the social, economic and environmental impact of the industrial process will support higher marks.

**[ Max marks possible for this task: 7 ]**

### Resources / Notes:

- RSC practical activities
- Chemistry in Context Hill & Holman ISBN 0-17-448164-0
- A Level Chemistry textbooks