- CO₂ and N₂ are desorbed from catalyst surface

### MONITORING ENVIRONMENTAL POLLUTION
- Infrared spectroscopy

### 2.4.2 GREEN CHEMISTRY

#### PRINCIPLES OF CHEMICAL SUSTAINABILITY
- Less hazardous chemicals
- High atom economy
- Using renewable resources
- Seeking alternative energy sources
- Non-toxic wastes

#### USING RENEWABLE RESOURCES
- Plant-based substances
- Solar energy
- Rather than finite resources that will eventually run out

#### SAVING MONEY
- Less hazardous waste to treat
- Using fewer chemicals
- Less energy
- Using catalysts

#### PREVENTING WASTE
- Fewer materials used
- Recycled waste
- Used as a useful by-product

#### MAXIMISING ATOM ECONOMY
- Designing synthetic methods
- Maximise all materials used

#### RECYCLING AND BIODEGRADABILITY
- Materials should be recycled
- Should be easily broken down in environment

#### INTERNATIONAL TREATIES TO REDUCE HAZARDOUS CHEMICALS
- Montreal Protocol (protects ozone layer)
- Stockholm Convention on Persistent Organic Pollutants (POPs)
- Rio Declaration on Environment and Development (sustainable development)

#### USING CO₂
- CO₂ waste can be collected and used

#### CO₂ IN FOAM