

D-4

Diffusion of Nitrogen Dioxide in air

- Technicians prepare a gas jar of nitrogen dioxide and set it up in the fume cupboard with the lid on and with an inverted gas jar of air clamped above it (as in the diagram)
- The demonstrator should remove the gas jar lid and adjust the jar of air so it sits directly on the gas jar of nitrogen dioxide
- Diffusion takes place in about 20 minutes




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Experiment Hazard Assessment

Experiment: Diffusion of Nitrogen Dioxide in Air

Reference: D-4

Chemical hazards			
Nitrogen dioxide 	Oxidiser May cause/intensify fire Causes severe burns and eye damage Fatal if inhaled	Wear eye protection Prepare and use in a fume cupboard Do not inhale Avoid skin contact	CLEAPSS Hazcard 68B Recipe 42

Hazards associated with the apparatus/practical

Perform the demonstration in the fume cupboard to minimise exposure to nitrogen dioxide. Ensure both gas jars are clamped securely.

Disposal

W6 In the fume cupboard separate the gas jars and leave for the nitrogen dioxide to vent.

Reference

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