

## Safe Working Procedure for Reactions under Medium Pressure

A number of organic reactions are sometimes carried out at pressures above atmospheric, up to 100 psi. For reactions at pressures above 100 psi, consult the separate Safe Working Procedure.

Reactions at increased pressure may be carried out in apparatus sufficiently strong to withstand the applied pressure. The apparatus may be of steel, thick walled glass or other suitable materials. The apparatus must be inspected before use to ensure that it is in good condition and, for glassware, free of cracks. The apparatus must be fitted with a pressure head fitted with a safety relief valve set for 150 psi or lower.

All reactions under pressure must be carried out in a well ventilated fume cupboard. In addition, the reaction should be behind or within an additional safety shield made of an appropriate material (e.g. polycarbonate,  $\geq 7$ mm thickness).

At the end of the reaction, the excess pressure should be released gradually with caution.

The following personal protective equipment (PPE) is to be used:

Safety Glasses, Labcoat, Latex gloves, Long pants, Covered shoes

Prepared by,

  
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Approved by,

  
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