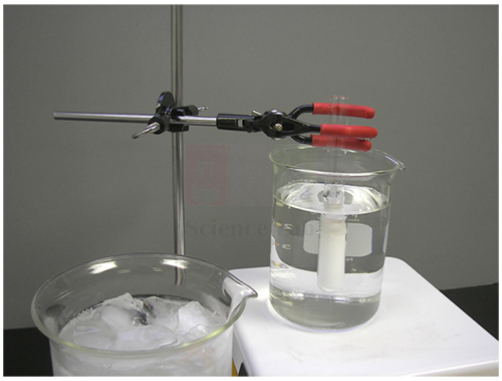
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Product Name :

Greener Synthesis Of Acetylsalicylic Acid

Product Code :

SLE/CH/144



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Description :

Greener Synthesis Of Acetylsalicylic Acid (Product Code: SLE/CH/144) is a multi-step organic chemistry kit that shows how to produce sodium salicylate from a naturally occurring, renewable resource and carry it through to acetylsalicylic acid, the active compound in aspirin. Students convert the sodium salicylate to salicylic acid, check for salicylic acid with a quick confirmatory test, and then use their own prepared salicylic acid for the final synthesis. There are enough materials for 15 groups, plus a teacher's manual and student copy masters. With its step-by-step structure it works well as a chemistry teaching kit for organic chemistry classes at home and overseas, supplied by a laboratory chemicals supplier in India, **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala.

Specifications

Parameter	Detail
Groups served	Enough materials for 15 groups
Starting point	A naturally occurring, renewable resource
Step 1	Production of sodium salicylate
Step 2	Conversion of sodium salicylate to salicylic acid
Check	Quick confirmatory test for the presence of salicylic acid
Step 3	Synthesis of acetylsalicylic acid from the prepared salicylic acid
Teaching material	Teacher's manual and student copy masters

Typical Use

Because each step produces the starting material for the next, the practical is usually spread over more than one lesson and teaches students something single-step experiments cannot: losses and impurities carry forward, so careful technique early on decides the result at the end. The route also illustrates a core green chemistry idea, using a renewable feedstock, and invites comparison with the way salicylic acid is commonly manufactured from petrochemical sources.

The quick confirmatory test gives groups a checkpoint before they commit their salicylic acid to the final synthesis, which keeps weaker groups from carrying a failed intermediate into the last step. Teachers who want to push further can have students collect the final crystals by suction filtration and compare melting points as a simple purity check. Schools in India looking for a science kit with manual and copy masters ready to photocopy will find the student sheets make marking consistent across groups. Eye protection and supervised handling of reagents are essential throughout, and the product is for laboratory study only.

Supplier

Kits like this one are supplied by ScienceLab, which is how Jain Scientific Equipments Private Limited of Ambala, Haryana, trades. Alongside the apparatus it manufactures, the company suppl
glass ad
more

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