



## Welcome to the forum of professional participants of the drug market!

Here you will get all the necessary information about organizing a laboratory of any size, from a small kitchen at home to an industrial facility.

And if you have your own production, here you will find all the relevant information to improve efficiency and safety.

In the sections of the forum you will find:

- Methods of synthesis and analysis;
- Suppliers of chemicals and equipment;
- Descriptions of the pharmacological action of substances;
  - Business technologies.

[Forums](#)[Synthesis technologies and analysis](#)[Amphetamines \(phenylethylamines\)](#)

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# Methamphetamine from ephedrine tablets

William Dampier · Sep 24, 2021

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## William Dampier

Well-known member

Expert

Joined: Jul 19, 2021 Messages: 580 Reaction score: 331 Points: 63

Sep 24, 2021



#1

### Extraction of pseudoephedrine from pharmaceutical (Sudafed) tablets.

Pseudoephedrine was extracted from Sudafed tablets using ethanol, ethanol/methanol (90:10% vol/vol) and methylated spirits. The solvents were chosen with reference to the relevant clandestine literature. For each extraction, one Sudafed tablet was crushed



using a mortar and pestle and placed in a beaker. The iron oxide coating was removed by repetitive washing with acetone (10 mL in total) until all of the red colour had disappeared. The acetone was removed by filtration and the residue was allowed to dry. The extracting solvent (15 mL) was added to the beaker, which was then covered with aluminum foil and the sample shaken using mechanical agitation for 15 min. The sample was left to settle for one hour at room temperature, and then filtered using gravity filtration. The solvent was evaporated, and the resultant solid collected.

### **Iodine from iodine tinctures.**

Iodine tincture (7 mL, 2.5%) and distilled water (7 mL) were combined together and mixed with swirling. Concentrated hydrochloric acid (1 mL) was added dropwise with swirling, followed by hydrogen peroxide (7 mL, 6 %20 vols). The mixture was poured into a beaker containing distilled water (50 mL) and left to stand for 20 min. The mixture was subsequently filtered using gravity filtration to reveal the iodine crystals.

### **Extraction of red phosphorous from matchboxes.**

Matchbook strikers were cut off from locally purchased KTWO safety matchboxes and soaked in acetone (10 mL). After 30 min, the red phosphorous was scrapped from the strikers, and the paper discarded. The extracted red phosphorous was washed with distilled water and left to dry to a constant weight. The dry red phosphorous was placed in a beaker, and sodium hydroxide solution (20% wt/vol, 20 mL) was added. This solution was placed on a low heat for 2 h. The final product was filtered, washed with distilled water and left to dry to a constant weight.

### **Synthesis of methylamphetamine using the Moscow and Hypophosphorous routes.**

Six batches of methylamphetamine hydrochloride were prepared using each synthetic route for laboratory grade pseudoephedrine and pseudoephedrine extracted from Sudafed tablets as previously described. In the case of the extracted precursor samples, the essential chemicals (iodine and phosphorous), used in the synthesis, were also extracted from tinctures and matchboxes. Twenty-four batches of methylamphetamine hydrochloride were prepared using each route, providing 48 batches in total.

#### *Moscow route:*

Pseudoephedrine hydrochloride (2.0 g) was mixed in a round bottom flask (100 mL) together with red phosphorous (0.6 g), iodine (4.0 g) and distilled water (2 mL) and a condenser attached. The mixture was refluxed for 24 h and then allowed to cool. Once cool, the mixture was diluted with an equal volume of water and the red phosphorus





filtered out. A few grams of sodium thiosulfate were placed into a beaker, and sodium hydroxide solution (25% wt/vol, 8 mL) added to basify the solution. This was then added to the filtered reaction mixture, and swirled to reveal methylamphetamine free base As an oil, which floated to the top of the aqueous solution. Toluene (20 mL) was added to extract the methylamphetamine free base. The toluene extract was clear to pale yellow. Anhydrous hydrogen chloride gas was bubbled through to reveal a white precipitate, which was washed with toluene. The solid was dried under high vacuum.

### Hypophosphorous route:

Pseudoephedrine hydrochloride (2.0 g) was placed into a round bottom flask (100 mL) and mixed with iodine (4.0 g) and hypophosphorous acid (3.6 mL) and a condenser attached. The mixture was refluxed for 8 h, then allowed to cool. Once cool, the mixture was diluted with an equal volume of water. A few grams of sodium thiosulfate were placed into a beaker, and 25 % sodium hydroxide solution (24 mL) was added to extract the methylamphetamine free base. Extraction and precipitation of the salt was as previously described.

[primitivetelectual](#) and [ifreezeu](#)

Last edited by a moderator: Feb 7, 2022

## ifreezeu

New member

Joined: Jan 3, 2022

Messages: 7

Reaction score: 0

Points: 1

14 Jan

#2

[William Dampier](#) said:

### **Extraction of pseudoephedrine from pharmaceutical (Sudafed) tablets.**

Pseudoephedrine was extracted from Sudafed tablets using ethanol, ethanol/methanol (90:10 % vol/vol) and methylated spirits. The solvents were chosen with reference to the relevant clandestine literature. For each extraction, one Sudafed tablet was crushed using a mortar and pestle and placed in a beaker. The iron oxide coating was removed by repetitive

Hi

I have just ordered these.

### [EPH 30+ Complex](#)

EPH 30+ Complex burns body fat by raising body temperature, this process is known as thermogenesis, during this process body fat is burned to "fuel" the rise in body temperature

[www.weightlossdirect.co.uk](http://www.weightlossdirect.co.uk)

Or shall I order these, if they will be easier to work with ?



### Buy Pure EPH 30mg Pills Online in UK | Buy EPH 30...

Buy pure EPH 30mg pills online in UK without any hesitation and make it a part of your weight loss journey. Buy eph 30mg pills online in UK from Pure EPH.

[pureeph.co.uk](http://pureeph.co.uk)

Ingredients below.

**Ephedrine 30mg**

**Caffeine 200mg**

**Aspirin 30mg**

1. How can I **remove Aspirin** out of this using the most simplest of the methods ?

(Aspirin is not water soluble but ephedrine is soluble ? Can I take that route ? Grind pills add to water then gravity filter (**Aspirin remains on the filter**) I get the **Ephedrine + Caffeine + Water**) Hmm how do I remove the solubles (**Ephedrine + Caffeine**) from the water ?

2. How can I **extract only ephedrine** out of the tablets using the most simplest of the methods, if any ?

Thanks in Advance

Last edited: Jan 14, 2022



**G.Patton**

Well-known member

Expert

Joined: Jul 5, 2021

Messages: 880

Reaction score: 512

Points: 93

16 Jan

#3

ifreezeu said:

Hi

I have just ordered these.

#### EPH 30+ Complex

EPH 30+ Complex burns body fat by raising body temperature, this process is known as thermogenesis, during this process body fat is burned to "fuel" the rise in body temperature

Aspirin 10 g/100 ml ethyl ether

Caffeine 0.2 g/100 ml ethyl ether

Ephedrine **insoluble in ether**

Use anhydrous ether!





# P

**pdwshopnl**

New member

Joined: Feb 4, 2022

Messages: 16

Reaction score: 2

Points: 3

05 Feb

#4

**How Look situation with CIRRUS tablets in EU?**

I hear first step is remove shell from all tablets - hands - (more time process) in acetone, next if are dry grinding for powder, next extraction with toluene 2-3x (in toluene is of course unwanted product stopped reaction because hydrochloride dont dissolve in toluen)- filtrate and this extract out.

Next filtrate alkalise IT for change pseudoephedrine hydrochloride to base and extraction one again (3 times minimum) with ether/toluene/etc and gassing hcl to neutral ph and for end filtrate, dryness to get pseudoephedrine hcl ready to Next step

**William Dampier**

Well-known member

Expert

Joined: Jul 19, 2021

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Reaction score: 331

Points: 63

09 Feb

#5

**What Cirrus contains**

- Active ingredients:

Each tablet contains 5 mg cetirizine dihydrochloride in an immediate release form

and 120 mg pseudoephedrine hydrochloride in a prolonged-release form.

- Other non-active ingredients:

Hypromellose.

Microcrystalline cellulose.

Colloidal silica anhydrous.

Magnesium stearate.

Lactose monohydrate

**pdwshopnl**, in general, your route of extraction looks good.

Prolonged-release form - and there is a shell of tablets. Before extraction of toluene, it is necessary to dissolve everything in warm water, filter from insoluble and after already extracted with toluene.

Last edited by a moderator: Feb 9, 2022

**primitiveintelctual**

Member

Member

Joined: Feb 12, 2022

Messages: 33

Reaction score: 32

Points: 18

12 Feb

#6

Moscow route and Hypophosphorous route: how does the reaction work? so what temperatures need to be maintained from start to finish?

Moscow route: 24h Reflux must be or may be less?





**William Dampier**

Well-known member

Expert

Joined: Jul 19, 2021  
Messages: 580  
Reaction score: 331  
Points: 63

15 Feb

#7

Temperatures are brought to a boil, the exact time of reaction is only by TLC



**primitiveintellectual**

Member

Joined: Feb 12, 2022  
Messages: 33  
Reaction score: 32  
Points: 18

15 Feb

#8

TLC? what is it?



**G.Patton**

Well-known member

Expert

Joined: Jul 5, 2021  
Messages: 880  
Reaction score: 512  
Points: 93

15 Feb

#9

primitiveintellectual said:

TLC? what is it?

**Thin-layer chromatography (TLC) of drugs**

Last edited by a moderator: Mar 17, 2022



**primitiveintellect**

15 Feb

#10

thanks



**ual**

Member

Joined: Feb 12, 2022  
 Messages: 33  
 Reaction score: 32  
 Points: 18

**Y****yuiopjkl**

New member

Joined: Mar 14, 2022  
 Messages: 17  
 Reaction score: 2  
 Points: 3



25 Mar

#11

How much methamphetamine can 100 grams of pseudoephedrine pills make?

**brianvene1**

New member

Joined: Mar 21, 2022  
 Messages: 20  
 Reaction score: 9  
 Points: 3

30 Mar

#12

yuiopjkl said:

How much methamphetamine can 100 grams of pseudoephedrine pills make?

It dependes of the process, the german under (pdf available) method extracted 2.7 g and made like 1.6 +-  
 But with this amount, things can change the factors etc.  
 Read more and be pacience

yuiopjkl

**brianvene1**

New member

Joined: Mar 21, 2022  
 Messages: 20  
 Reaction score: 9  
 Points: 3

10 Apr

#13

William Dampier said:

A few grams of sodium thiosulfate were placed into a beaker, and 25 % sodium hydroxide solution (24 mL) was added to extract the methylamphetamine free base. Extraction and precipitation of the salt was as previously described.

W.D, G.P

1-Can i use the toluene extraction after *Hypophosphorous* refluxe?  
 2-What is the purity obtained, and how to improve it?  
 3-What is the maximum amount that can be synthesized with these methods?

thank you





### William Dampier

Well-known member

Expert

Joined: Jul 19, 2021

Messages: 580

Reaction score: 331

Points: 63

12 Apr

#14

brianvene1 said:

- 1-Can i use the toluene extraction after *Hypophosphorous* refluxe?
- 2-What is the purity obtained, and how to improve it?
- 3-What is the maximum amount that can be synthesized with these methods?

u use this [synthesis \(click\)](#). In the end, we add an aqueous alkali solution to the basic pH (>10). Toluene can be used for extraction. Extract we can wash with water, brine, thiosulfate (to wash the remaining iodine). The reaction is well scaled if there is a necessary equipment (good stirring, sufficient volume of a flasks and controlled reflux). But scaling must be made gradually (if there is no experience)

Last edited by a moderator: Apr 12, 2022

brianvene1



### brianvene1

New member

Joined: Mar 21, 2022

Messages: 20

Reaction score: 9

Points: 3

20 Apr

#15

I have access to NaPO<sub>2</sub>H<sub>2</sub> can i replace it



### William Dampier

Well-known member

Expert

Joined: Jul 19, 2021

Messages: 580

Reaction score: 331

Points: 63

18 May

#16

brianvene1 said:

I have access to NaPO<sub>2</sub>H<sub>2</sub> can i replace it

### [US5431792A - Method of making hypophosphorous acid - Goo...](#)

Disclosed is a method of making hypophosphorous acid from sodium hypophosphite by performing electrolytic water splitting upon an aqueous solution of sodium hypophosphite. The process can be tied into an existing process for producing sodium hypophosphite wherein the product of the sodium...  
patents.google.com





# R

**ralralro**

New member

Joined: Jun 10, 2022

Messages: 9

Reaction score: 0

Points: 1

10 Jun

#17

To do this, what materials and equipment do you recommend?

# R

**ralralro**

New member

Joined: Jun 10, 2022

Messages: 9

Reaction score: 0

Points: 1

10 Jun

#18

How to make 25% Sodium Hydroxide with 5% Sodium Hydroxide?  
Can epadrine be used instead of pseudoephedrine?

Last edited: Jun 10, 2022

# R

**ralralro**

New member

Joined: Jun 10, 2022

Messages: 9

Reaction score: 0

Points: 1

10 Jun

#19

I have a lot of questions, so I've put them together and don't know how to delete the above question, so I'm re-registering

1. How to dry under high vacuum
2. How to Extract Hypophosphorous Acid with Sodium Hypochlorite
3. What equipment do you use for extraction with toluene?
4. Can epadrine be used instead of pseudoephedrine?
5. How to make 25% Sodium Hydroxide with 5% Sodium Hydroxide?
6. How much grams of sodium thiosulfate do i have to use with Hypophosphorous route

I'm a beginner so I have a lot of questions, sorry and thank you for your help

# S

11 Jun

#20

Since the Moscow route seems to differ from the usual HI/RP method only in that it simply uses I2 in place of HI, my question is -- why don't people use the Moscow route more often? Are yields



**SpectreOfCommunism**

New member

Joined: May 28, 2022

Messages: 10

Reaction score: 1

generally similar to the HI method? What's the catch? Great write-up btw

[Forums](#)[Synthesis technologies and analysis](#)[Amphetamines \(phenylethylamines\)](#)**1****2**

Next

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