



Edition: BP 2025 (Ph. Eur. 11.6 update)

## Aluminium Chloride Solution

### [General Notices](#)

Aluminium Chloride Cutaneous Solution

### DEFINITION

Aluminium Chloride Solution is a *cutaneous solution*. It contains Aluminium Chloride Hexahydrate in a suitable ethanolic vehicle.

### PRODUCTION

In making Aluminium Chloride Solution, Industrial Methylated Spirits may be used provided that the law and the statutory regulations governing the use of Industrial Methylated Spirits are observed.

*The solution complies with the requirements stated under Liquids for Cutaneous Application and with the following requirements.*

#### Content of aluminium chloride hexahydrate, $\text{AlCl}_3 \cdot 6\text{H}_2\text{O}$

95.0 to 105.0% of the stated amount.

### IDENTIFICATION

Dilute the solution with [water](#) to produce a solution containing 2% w/v of Aluminium Chloride Hexahydrate. The solution yields reaction A characteristic of *aluminium salts* and reaction A characteristic of *chlorides*, [Appendix VI](#).

### TESTS

#### Iron

Dilute the solution being examined with [water](#) to produce a solution containing 10.0% w/v of Aluminium Chloride Hexahydrate. 10 mL of this solution complies with the [limit test for iron, Appendix VII](#) (10 ppm, determined with respect to the content of aluminium chloride hexahydrate).

#### Ethanol

Not less than 70.0% v/v, [Appendix VIII F](#).

### ASSAY

To a weighed quantity containing about 0.4 g of Aluminium Chloride Hexahydrate add 25 mL of [water](#) and carry out the [complexometric titration of aluminium, Appendix VIII D](#). Each mL of [0.1M disodium edetate VS](#) is equivalent to 24.14 mg of  $\text{AlCl}_3 \cdot 6\text{H}_2\text{O}$ .

If the declared content is in terms of weight in volume, determine the [weight per mL](#) of the solution, [Appendix V G](#), and hence calculate the content of  $\text{AlCl}_3 \cdot 6\text{H}_2\text{O}$ , weight in volume.

## STORAGE

Aluminium Chloride Solution should be stored upright.

## LABELLING

The label states that the solution is flammable.