

# aluminium chloride

<b>A0047CC</b>	<b>Platinum Line</b>
anhydrous	
<b>Warranty Certificate</b>	
Assay	min 98%
Iron (Fe)	0.02%
Lead (Pb)	0.005%
Sulphate (SO <sub>4</sub> )	0.05%

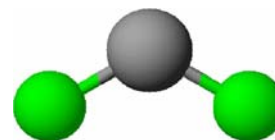
## Packaging

500g white plastic jar  
cas 7446-70-0

<b>A0048CC</b>	<b>Gold Line</b>
hexahydrate	
<b>Typical analysis</b>	
Assay	99%
Arsenic (As)	0.0004%
Ammonium (NH <sub>4</sub> )	0.01%
Calcium (Ca)	0.02%
Iron (Fe)	0.001%
Lead (Pb)	0.001%
Sulphate (SO <sub>4</sub> )	0.01%
Water (H <sub>2</sub> O) [Karl fisher]	42 - 48%

## Packaging

500g white plastic jar  
cas 7784-13-6



## Physical properties, composition and data

Chemical formula	AlCl <sub>3</sub> .6H <sub>2</sub> O (hexahydrate), AlCl <sub>3</sub> (anhydrous)
Synonym	Aluminium trichloride
Atomic weight	133.34
Appearance	Colourless or grey to yellow to greenish crystalline powder
Odour	Strong odour
Solubility	Soluble in benzene, nitrobenzene, carbon tetrachloride, chloroform and trichloromethane
Melting point	190°C
Density (g/ml)	2.5 - 3.5
Hazardous material	Flammable
pH (aqueous solution)	Hexahydrate: 2.4
Products of decomposition	Deteriorates by natural causes
Other information	Fumes in air
Hazardous material	Corrosive

## Laboratory preparation, applications and practices

Laboratory preparation	Anhydrous: By reaction of purified gaseous chlorine with molten aluminium Hexahydrate: By crystallizing the anhydrous form from hydrochloric acid solution
Usage	Acid catalyst and used in Friedel-Crafts type reactions

## Storage and handling information

Storage	Keep container well closed and protected from moisture, separated from strong bases
Safety phrases	7/8-28
Risk phrases	34
Disposal methods	3
Caution	Combines with water with explosive violence and liberation of much heat

## Transport regulations

Tariff code	2827.32.00
Hazardous class	8
Packing group	II
UN number	1726
ERG number	137

