

AlCl₃ Is An Example Of

Friedel–Crafts reaction The complex is destroyed upon aqueous workup to give the desired ketone. For example, the classical synthesis of deoxybenzoin. quantity of AlCl₃ is needed

Aluminium compounds A stable derivative of aluminium moniodide is the cyclic adduct formed with. presence of aluminium, as is aluminium when heated in the presence of AlCl₃

Gattermann reaction It is named for the German chemist Ludwig Gattermann and is similar to the. in the presence of a Lewis acid catalyst such as aluminium chloride (AlCl₃)

Aluminium chloride It forms a hexahydrate with the formula [Al(H₂O)₆]Cl₃, containing six water molecules of hydration. trichloride, is an inorganic compound with the formula AlCl₃

Indium(III) chloride trichloride is very soluble and deliquescent. A synthesis has been reported using an electrochemical cell in a mixed methanol-benzene solution. Like AlCl₃ and

Acylation For example, Friedel–Crafts acylation uses acetyl chloride (CH₃COCl) as the agent and aluminum chloride (AlCl₃) as a catalyst to add an acetyl group. agents

Erbium(III) chloride [NH₄]₂ErCl₅ → ErCl₃ + 2 HCl + 2 NH₃ Erbium(III) chloride forms crystals of the AlCl₃ type, with monoclinic crystals and the point group C₂/m. Erbium(III) chloride

Amphoterism hydroxide is also amphoteric:
$$\text{Al}(\text{OH})_3 + 3 \text{HCl acid} \longrightarrow \text{AlCl}_3 + 3 \text{H}_2\text{O}$$

Lewis acids and bases RCl + AlCl₃ → R⁺ + AlCl₄[−]. acceptance by AlCl₃ of a chloride ion lone-pair, forming AlCl₄[−] and creating the strongly acidic, that is, electrophilic, carbonium ion

Yttrium(III) chloride YCl₃ is often prepared by the ‘ammonium chloride route. This structure is

shared by a range of compounds, notably AlCl₃. giving it a layered structure e96b71ae6e

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