

FC-106 (CAS 1341-49-7) Ammonium hydrogen difluoride NH_3

HF HF Cas: 1341-49-7 Name: Ammonium hydrogen difluoride Ammonium bifluoride; Ammonium Hydrogen Fluoride; **BASIC** Molecular formula: F2H5N **INFORMATION** Molecular weight: 57.04320 PSA: 3.24000 LOGP: 1.38930 Appearance: White crystal, slightly pungent smell Density: 1,5 g/cm3 Boiling point: 230 °C Flash point: 238°C **PHYSICAL INDEX** Water solubility: 630 g/L (20 °C) Storage condition: warehouse ventilated and dry at low temperature, stored separately from alkali Steam pressure: 19.4mmHg at 25°C RTECS number: BQ9200000 Safety instructions: S22-S26-S37-S45-S36/37/39 Hazard category code: R25; R34 WGK Germany: 1 Customs code: 2826191010 Dangerous goods transport code: UN 1727 8/PG 2 **SECURITY** Hazard category: 8 **INFORMATION** Packing level: II Dangerous goods mark: C Hazard description: H301; H314 Signal word: Danger Hazard prevention statement: P260; P280; P303 + P361 +

Anhui Sinograce Chemical Co., Ltd. Add.: Hefei city, Anhui province, China

P353; P304 + P340 + P310; P305 + P351 + P338

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Danger signs: GHS05, GHS06



Production method

The neutralization method is in a container made of lead or plastic, quantitatively pass the anhydrous hydrofluoric acid, mix it with the circulating mother liquor, cool it with cold water in the container jacket, and then slowly and intermittently circulate the liquid ammonia in a fine manner with constant stirring , Make it fully react. Congo red reagent is used to measure at any time during the operation. When the reagent is just brown as the end point, stop passing liquid ammonia. The reaction liquid is evaporated and concentrated until the liquid surface shows a crystalline film, and then cooled and crystallized, centrifuged to obtain a finished product of ammonium bifluoride, which is NH3+2HF→NH4HF2

INSTRUCTIONS

APPLICATION

use

Etching agent for carved glass, antiseptic, disinfectant, solvent for beryllium metal made of beryllium oxide, analytical reagent and surface treatment agent for silicon steel plate. It is also used for the production of ceramics and aluminum-magnesium alloy oxidants and the cleaning of boiler feed water system steam Reagents, organic synthetic fluorinating agents, electroplating solutions, reagents for extracting rare elements.

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