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### Cupric fluoroborate

**Formula:**  $\text{Cu}(\text{BF}_4)_2$

**CAS No:** 14735-84-3

**M. W:** 237.14

**Properties:** Solid cupric fluoroborate is bright blue needle crystal with hygroscopicity; easily soluble in water; easily produce the complex compound of water and ammonia, so it is hard to produce anhydrous salts. Its typical aqua compounds are tetrahydrate and hexahydrate, in the form of  $\text{Cu}(\text{H}_2\text{O})_n[\text{BF}_4]_2$ . Its monohydrate is  $\text{Cu}(\text{BF}_4)_2 \cdot \text{H}_2\text{O}$ , colorless crystal. The relative density of hexahydrate cupric fluoroborate is 2.175. Heated to  $40^\circ\text{C}$ , it can decompose to  $\text{BF}_3 \cdot \text{CuF}_2$  and  $\text{H}_2\text{O}$ ; at room temperature and in the vacuum, it can decompose into tetrahydrates. Tetrahydrate and monohydrate has strong hygroscopicity. Only when dried by  $\text{P}_2\text{O}_5$  for long, it can lose crystal water..

**Specification:** Company standard

Index name	Industrial	Plating
Cupric fluoroborate ( $\text{Cu}(\text{BF}_4)_2$ ), % $\geq$	44-46	
Copper (Cu), % $\leq$		12.5
Iron(Fe), % $\leq$		0.20
Heavy metal(Pb), % $\leq$	0.10	0.15
Chloride(Cl), % $\leq$	0.10	0.10
Sulfate( $\text{SO}_4$ ), % $\leq$	1.20	0.50
Silicate( $\text{SiO}_2$ ), % $\leq$	0.20	0.10
Free fluoboric acid ( $\text{HBF}_4$ ), % $\leq$	1-2	2.0

**Application:** Ingredient of copper and copper alloy electroplating solution. Used as the electroplating electrolyte roller for printing and dyeing and photograph.

**Packing:** Polythene plastic drum, 25kg.