

## Ammonium Sulfate

CAS Number: 7783-20-2



### Suggested applications

Mainly used as a fertilizer for alkaline soils. It contains 20.5% nitrogen and 23% sulfur. In the soil, the ammonium ion is released and forms a small amount of acid, lowering the pH balance of the soil, while contributing essential nitrogen for plant growth.

It is also used as an agricultural spray adjuvant for water-soluble insecticides, herbicides, and fungicides.

### Physical properties

Fine white/colorless hygroscopic crystals or granular, bulk density 1.77 g/cm<sup>3</sup>, easily soluble in water, insoluble in acetone, alcohol and ether. Melting point 235 to 280° c.

### Packaging & Storage

Packed in 50kg or 1-1.2mt big bags.  
Customized bags packing is available.  
Stored at cool, dry and well ventilated place.

### Target properties

<b>Chemical formula</b>	(NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub>
<b>Nitrogen (N)% ≥</b>	20.5
<b>Sulfur (S) % ≥</b>	24
<b>Free Acid (H<sub>2</sub>SO<sub>4</sub>)% ≤</b>	0.05
<b>Moisture (H<sub>2</sub>O) % ≤</b>	0.3
<b>Fluoride (F) % ≤</b>	0.05
<b>Cloride, as Cl % ≤</b>	0.1
<b>Heavy Metals, as Pb % ≤</b>	0.005
<b>Asenic, as As % ≤</b>	0.001
<b>Water insoluble% ≤</b>	0.1

\*permissible tolerance of 0.1-0.2% is possible for main content and moisture due to different testing methods under diverse conditions