



Specialized in chemicals

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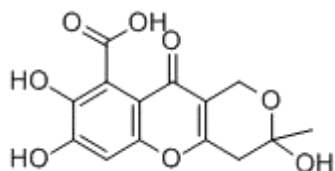
## Technical Data Sheet

# Fulvic Acid

### Product Information

Chemical Name	Fulvic Acid
CAS #	479-66-3
Formula	C14H12O8
Molecular Weight	308.24028
Synonyms	3,4-dihydro-3,7,8-trihydroxy-3-methyl-10-oxo- (6CI);

### Structural formula:



### Physical Properties

Appearance: Yellow crystalline solid.  
Molecular Weight: 308.24028  
Density: 1.79 g/cm<sup>3</sup>  
Boiling Point: 661 °C at 760 mmHg  
Melting Point: 247°C  
Flash Point: 255.1 °C  
Refractive index: 1.736  
Solubility: Soluble in methanol or benzene; insoluble in water.

### Specification

Items	Standard	Result	Conclusion
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Appearance	Dark Brown Powder	Dark Brown Powder	Conforms
Fulvic Acid (dry basis)	99.3 min.	99.31	Conforms
Moisture	1.8 max	1.75	Conforms
PH VALUE	6.6	6.6	Conforms
Water soluble(dry basis) %	99 min	99.5	Conforms
Fineness (mesh),% mix	195 mesh min	200 mesh	Conforms

## Applications

### Benefits

1. Enhances the up take of nutrition.
2. Promote quicker seed germination and faster root and shoot growth;
3. Provide a valuable source of carbon for soil microorganisms;
4. Stimulate enzymic systems in plants to increase plant respiration;
5. Improve moisture retention in plants and Anti-drought
6. Prevent and cure plant pathema.
7. Stimulate the plant micro-biological activity
8. Slowly release fertilizer.
9. Improve effective of fertilizer and pesticides.
10. Improve soil structure.
11. Promote residue decomposition.

### Application:

1. Foliar applications apply alone 450gram-750gram/ha in 0.5-1% concentration.
2. Soil application basal fertilizer: apply 4.5kg-7.5kg/ha
3. Root Application apply 4.5kg-7.5kg/ha in 0.1-0.2% concentration

## Packaging

Packaging Detail: 50g,100g,200g,250g,400g,500g,1kg,10kg bag ,20kg, 25kg,40kg bag,50kg,600kg, 900kg plastic bag , fiber bag, fiber drum, carton, 25KGS or Fibre Drum; according to the customers' request

## Storage & Handling

Keep in a cool, dry, dark location in a tightly sealed container or cylinder. Keep away from incompatible materials, ignition sources and untrained individuals. Secure and label area. Protect containers/cylinders from physical damage.

Always refer to the Material Safety Data Sheet (MSDS) for detailed information on handling and disposal.

*The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchant ability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall we be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if we has been advised of the possibility of such damages.*

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