



Specialized in chemicals

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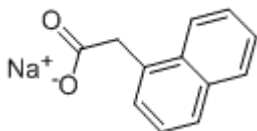
## Technical Data Sheet

### NAA-Na

#### Product Information

Chemical Name	NAA-Na
CAS #	61-31-4
Formula	C <sub>12</sub> H <sub>9</sub> NaO <sub>2</sub>
Molecular Weight	208.19
Synonyms	1-Naphthaleneaceticacid, sodium salt ;1-Naphthylacetic acid sodium salt;

#### Structural formula:



#### Physical Properties

pure white , odorless or a little odor powder , a little sweet or salty.Easily Soluble in water(53.0g/100ml,25°C) , Slightly soluble in ethanol(1.4g/100ml) and its solution PH value is 8.no precipitation .Prevent fermentation ability and bactericidal activity is weaker than benzoic acid.W hen the PH value is 3.5 , 0.05% solution completely prevent the growth of yeast.

When the PH value is 6.5 , more than 2.5% concentration of the solution is required.

Purity:80%-98%

#### Specification

Items	Specification
Appearance	Pure white crystal
Assay	98%min.

Boling point	373.2°C at 760 mmHg
Flash point	270.1°C
Vapor pressure	3.13E-06mmHg at 25°C

## Applications

Sodium a-naphthaleneacetic acid (NAA-Na) is one kind of broad-spectrum plant growth regulators, it can enter plant body through plant leaves and skin together with nutrients. It can promote root differentiation and formation, speed up branches and cuttings rooting growth, induce flowering, accelerate chlorophyll synthesis, prevent flower and fruit-dropping. Meanwhile sodium a-naphthaleneacetic acid can increase the ability of resistance and thus increase yield well.

1. NAA-Na can be made into water formulation, oil formulation, powder formulation alone.
2. NAA-Na can be compounded with auxin as rooting hormone.
3. NAA-Na can be mixed with sodium nitrophenolate produce into Nitrate naphthalene preparation in order to increase efficiency reciprocally. That has been widely used in Japan, Taiwan etc. more than 20 years.
4. NAA-Na can be mixed with foliar fertilizer, red fertilization to increase fertilizer utilization ratio.
5. NAA-Na can be mixed with fungicides to increase efficiency highly.

Using method

Use individually, high purity NAA-Na can be made as water aqua, emulsion, powder and other formulations for growth, root, flower and fruit, etc.

Compound formulation, it can be mixed with compound sodium nitrophenolate, auxin, fungicide and fertilizer. In Taiwan, Japan, mixed with compound sodium nitrophenolate is more than 20 years, which can increase efficiency and broaden the spectrum efficiency.

Case:

Remix it with auxin to be rooting powder.

Remix it with compound sodium nitrophenolate to be Flower preserving agent and swelling agent.

Remix it with fertilizer, reference dosage: Foliar fertilizer 0.2-0.4 g / mu, Drip irrigation 0.5-2g/mu, Water flush fertilizer 8-10g/mu, compound fertilizer, base fertilizer 8-10g/mu.

Attention:

In foliar spray, different plants and same crops in different period, different concentration, please refer to the instruction.

## Packaging

25kg/drum, 1kg/bag,

## **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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