

Name : Diammonium hydrogen citrate

Another name : Ammonium citrate dibasic

Grade : Special Grade

Volume : 500g

Specification number : Ka-047

Issue number : CBK05

Code number : 01002165

HAYASHI PURE CHEMICAL IND.,LTD.

3-2-12 UCHIHIRANOMACHI,CHUO-KU, OSAKA 540-0037, JAPAN

| No. | Item  | (unit)   | Specification                  | Test Procedure |
|-----|---|----------|--------------------------------|----------------|
| 1   | Appearance (Form)   | -        | Crystals or crystalline powder | JIS K8284-2021 |
| 2   | Appearance (Hue)  | -        | Colorless                      |                |
| 3   | Assay (C <sub>6</sub> H <sub>14</sub> N <sub>2</sub> O <sub>7</sub> ) | mass %   | min. 99.0                      |                |
| 4   | Solubility in water   | -        | Clear                          |                |
| 5   | Residue on ignition (sulfate)   | mass %   | max. 0.02                      |                |
| 6   | pH (50g/L,25°C)   | -        | 4.6 ~ 5.2                      |                |
| 7   | Chloride (Cl)   | mass ppm | max. 5                         |                |
| 8   | Phosphate (PO <sub>4</sub> )  | mass ppm | max. 5                         |                |
| 9   | Sulfate (SO <sub>4</sub> )  | mass %   | max. 0.005                     |                |
| 10  | Oxalate (as C <sub>2</sub> O <sub>4</sub> )                           | mass %   | max. 0.01                      |                |
| 11  | Tartrate (as C <sub>4</sub> H <sub>6</sub> O <sub>6</sub> )           | mass %   | max. 0.01                      |                |
| 12  | Copper (Cu)   | mass ppm | max. 2                         |                |
| 13  | Iron (Fe)   | mass ppm | max. 5                         |                |
| 14  | Potassium (K)   | mass %   | max. 0.01                      |                |
| 15  | Sodium (Na)   | mass %   | max. 0.02                      |                |
| 16  | Lead (Pb)   | mass ppm | max. 2                         |                |
| 17  | Zinc (Zn)   | mass ppm | max. 2                         |                |
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remark

With revision of JIS,etc.a part of the above contents may be updated without prior notification.