

PRODUCT INFO & DATASHEET

# DAP-TG 21.53.0

## Technical Grade of water soluble DIAMMONIUM PHOSPHATE

- Origin: E.U. -

*Update 11/2026*

### 1/ PRODUCT DESCRIPTION

**Product Function Category (PFC)**
Compound solid inorganic macronutrient fertiliser
PFC 1(C)(I)(a)(ii)
**General Description**
NP fertiliser 21-53
Hygroscopic odourless white powder. Risk of caking.
**Grade**
Horticultural grade
**Granulometry**
Powder. 90 % of the product passes through sieve of 1 mm.
**Ingredients, CAS number & Component Material Category (CMC)**
Diammonium phosphate[1] (CAS n°: 7783-28-0) - [1]Virgin material substances and mixtures (CMC 1)
**Formula**
$(NH_4)_2HPO_4$
**EC number**
231-987-8
**Molecular weight**
132
**Declared nutrients**
21 % Total nitrogen (N)
21 % Ammoniacal nitrogen (N)
53 % Total phosphorus pentoxide ($P_2O5$)
53 % Phosphorus pentoxide ($P_2O_5$), water-soluble
53 % Phosphorus pentoxide ($P_2O_5$), soluble in neutral ammonium citrate

### 2/ PRODUCT CHARACTERISTICS & CERTIFICATE OF ANALYSIS

| **Chemical properties** | Unit | Typical analysis | Specifications | Methods |
|---|---|---|---|---|
| Total $P_2O_5$ (as is) | % | 53.7 | 53.5 Min. | ELC 20 |
| P | % | 23.4 | 23.3 Min. | ELC 99 |
| N-$NH_4$ (ammoniacal) | % | 21.1 | 20.8 Min. | ELC 24 |
| Assay | % | 98.3 | 96.0 - 102.0 | ELC 99 |
| pH solution 1% | | 8.0 | 7.8 - 8.4 | ELC 17 |
| Insoluble matters | % | < 0.03 | 0.05 Max. | ELC 15 |
| Impurities content | | | | |
| As | ppm | < 2.0 | 2.0 Max. | EICP 25 |
| Cd | ppm | < 1.0 | 1.0 Max. | EICP 01 |
| Cl | ppm | < 5 | 10 Max. | ELC 03 |
| Fe | ppm | 1.2 | 50.0 Max. | EICP 01 |
| Hg | ppm | < 1.0 | 1.0 Max. | EICP 24 |
| Oxalic acid | | Pass | Passed test | Oenological Codex |
| Pb | ppm | < 1.0 | 1.0 Max. | EICP 01 |
| Sulfate (as $SO_3$) | ppm | 390 | 816 Max. | EICP 01 |
| Sulfur ash | % | < 0.5 | 0.5 Max. | Oenological Codex |
| **Physical properties** | | | | |
| Bulk density | g/cm³<br>lbs/ft³ | 0.94<br>59 | -<br>- | ELC 12<br>Calculation |

**THEORETICAL VALUES**
Solubility: 69 g/100 g water @ 20° C

**MOISTURE**
Nobody can guarantee a moisture spec for DAP because this content rises rapidly given the product's hygroscopic nature.
Then its at production in specs but very quickly fall out of specification at the customer's premises.
Therefore the moisture specification in the DAP (all grade) has been removed due to its high moisture absorption capacity.

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**STORAGE & SHELF LIFE**
Store in a cool, dry and odorless place. Protect from humidity. Keep in the packaging of origin, shrink-wrapped.
Best before: 3 years after production date in appropriate storage.

## 3/MAIN APPLICATIONS

| | | |
|---|---|---|
| horticulture | wine | chemicals |
| water soluble fertiliser for fertigation | fireproofing agent | textiles and leather manufacturing |
| ingredient of NPK blends | fire extinguishing powders | fertiliser |
| provide nutrients for plants | electronic and other metal treatments | nutrient for yeast and other fermentation processes |
| many other industrial processes | | |

## 4/KEY PROPERTIES
DAP-TG is a diammonium phosphate used as an additive in various industries ranging from textile manufacturing to fertiliser.
It is an adjuvant that is water soluble, used as an acidity regulator, reducing agent and complexing agent in many applications. Its decomposition under heat makes it a valuable fire retardant agent used in powder, liquids or coatings.
The natural association of ammonia and phosphorus with good water solubility makes it a source of nutrients for bioprocessing, fermentation and fertilisation.

**Handling precautions**
See MSDS

## 5/USE
Instructions for use and application rates: For professional use only. Application rate depends on crop conditions.
Farmers are advised to contact their advisor to determine the recommended application rate for their specific situation.

## 6/ CERTIFICATIONS
ISO 9001 (Quality) – ISO 14001 (Environment) – ISO 45001 (Health & Safety) – Kosher Pareve Passover – Halal

## 7/ REGULATIONS
Meets the requirements of current Regulation (EU) 2019/1009 of the European Parliament and of the Council on the making available on the market of EU fertilising products.

## 8/ STATEMENTS
GMO free – Allergen free – BSE/TSE free – Mineral origin

## 9/ STORAGE
Store in a temperate and dry place, keep in the original packaging. Reclose partially used bags.

## 10/ Packaging
PE bags 25 kg net, on pallets with a stretched plastic foil, 24 MT/20' fcl or 1 T big bags on pallets

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