



TECHNICAL DATA SHEET

002161-TDS-ENG-2019

ACIDO FITICO SOL. 40%		
DESCRIPTION DCI: PHYTIC ACID		DESCRIPTION DOE: ÁCIDO FÍTICO
CAS Nº: 83-86-3	EC Nº: 201-506-6	AEMPS CODE: ---
MOL. WEIGHT: 660.08	MOL. FORMULA: C ₆ H ₁₈ O ₂₄ P ₆	ARTICLE CODE: 002161

ATTRIBUTES	SHOULD BE
Appearance	Clear, colorless or pale yellow liquid that with time and direct sunlight turns yellowish brown
Solubility	Soluble in water
Identification	Acid solution
Relative density	About 1.30 g/mL
Fosfato combinado	About 0.1 %
Fósforo	Total
pH (1% solution)	< 2.0
Chlorides	< 0.01 %
Sulfates	< 0.001 %
Arsenic	< 0.001 %
Heavy metals	< 0.001 %
Assay	About 40.0 %

COMPLIES WITH

Manufacturer specifications

STORAGE

Keep containers tightly closed. Reserve in dry and ventilated places, avoiding extreme temperatures.

REMARKS

Product only suitable for cosmetic and/or nutraceutical purposes.

Properties and uses

PHYTIC ACID is found in whole grains of cereals (rice, oats, or wheat germ), fruits, and plants.

It has inhibitory action of tyrosinase, from which it derives its use as a depigmenting agent. It is used to lighten hyperchromic spots, occasionally combined with glycolic acid or mandelic acid. It also has anti-inflammatory, antioxidant, and moisturizing action. As an anti-inflammatory it is used for example in post-peeling treatments.

It is well tolerated by patients with sensitive or erythematous skin. It also constitutes an important source of inositol, being used for this in some pharmaceutical preparations. In addition as an excipient it has uses as a chelating agent for small amounts of heavy metals.

It has anti-dandruff activity.

Because of its content in organic phosphorus, it is used as a tonic and nervous system tonic.

Dosage

Topical route, usually 0.5 - 2%.

Precautions

Handle with caution due to its high acidity.

Other observations

It is thermolabile.



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Compounding examples

Bleaching formulas

PHYTIC ACID - **1 %**

Glycolic acid - **5 %**

Base cream or hydroxyethylcellulose gel c.s.p. - **30 g**

PHYTIC ACID - **2 %**

Mandelic acid - **2 %**

Base cream or hydroxyethylcellulose gel c.s.p. - **30 g**