

# BORON CITRATE



## PRODUCT IN FOCUS



## Boron Citrate

### INTRODUCTION

Boron citrate, usually called “boron”, is a mineral present in food and the environment. Studies show that boron potentially affects the way your body handles minerals such as phosphorus and magnesium. It is popularly used by those looking to build strong bones, build muscles, and improve muscle coordination.

### Manufacturing

Boron Citrate is manufactured using Boric Acid and Citric Acid.

### Applications

Boron citrate has wide range of applications such as:

- ✔ Bone growth and maintenance
- ✔ Wound healing
- ✔ Expression of extracellular-matrix proteins
- ✔ Regulation of sex hormones
- ✔ Prevention of Vitamin-D deficiency
- ✔ Magnesium absorption
- ✔ Anti-inflammatory effects
- ✔ Protects against pesticide-induced oxidative stress and heavy-metal toxicity
- ✔ Improves brain electrical activity, cognitive performance, and short-term memory in elders

<b>Synonyms</b>	2-hydroxypropane-1,2,3-tricarboxylic acid boron complex (3, 4-dicarboxylato-3-hydroxybutanoyl)oxyboron
<b>CAS no.</b>	74231-02-0
<b>EINECS no.</b>	-
<b>Molecular formula</b>	$C_6H_5BO_7$
<b>Molecular weight</b>	199.91
<b>Structure</b>	

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### SPECIFICATIONS

Test	Unit	Specification
Appearance	-	Off white powder
Solubility	-	Soluble in water
Identification		
• Test A – For Boron	-	Should be positive
• Test B – For Citric Acid	-	Should be positive
Assay (Boron content)	%	5.0 - 6.0
Loss on drying	%	Max 10.0
Arsenic (As)	ppm	Max 1.0
Lead (Pb)	ppm	Max 3.0
Cadmium (Cd)	ppm	Max 1.0
Mercury (Hg)	ppm	Max 0.1
Particle size (through 60 mesh)	%	Min 90.0
Microbial test		
• Total plate count	cfu/g	Max 3000
• Yeast & Mould	cfu/g	Max 100

### STORAGE

Store in tightly closed container in a cool, dry place.

### PACKING

25 kg Fiber drum.

### REGISTRATION / CERTIFICATION

ISO, GMP, KOSHER, HALAL

No matter the quantity you need, our exceptional quality and service will make ExSyn your supplier of choice! If you need any additional information or SDS, please contact us.