

# Calcium Nitrate Horticultural Grade Product Data Sheet

Item Number: 60-168

## Description

Brand name	UCY Calcium Nitrate Horticultural Grade
Chemical name	Double salt of calcium- and ammonium nitrate
Chemical formula	$5(\text{Ca}(\text{NO}_3)_2) \cdot (\text{NH}_4\text{NO}_3) \cdot 10(\text{H}_2\text{O})$

## Chemical composition

Parameter	Unit	Typical Value
Total Nitrogen (N)	% w / w	15.5
Nitric Nitrogen (N-NO <sub>3</sub> )	% w / w	14.3
Ammonium Nitrogen (N-NH <sub>4</sub> )	% w / w	1.2
Calcium Oxide (CaO)	% w / w	26.3
Calcium (Ca)	% w / w	18.8

## Heavy Metals

Parameter	Unit	Value
Arsenic (As)	mg / kg	< 10
Cadmium (Cd)	mg / kg	< 1
Chrome (Cr)	mg / kg	< 50
Mercury (Hg)	mg / kg	< 1
Lead (Pb)	mg / kg	< 10

## Physical properties

Parameter	Unit	Typical value
Density	g / cm <sup>3</sup>	1.2 +/- 0.2
pH in 10 % solution		5 -7
pH in 1 % solution		6 -7
Electric conductivity (EC) in 0.1 % solution	mS / cm	1.1 – 1.5
Electric conductivity (EC) in 1 % solution	mS / cm	9.1 – 11.1
Solubility	g / L	1288
Insolubles	%	< 0.1
Granulometry		
2 – 5 mm	%	> 90
< 1 mm	%	< 3
> 10 mm	%	< 0