

STRAIGHTS | CALCIUM PRODUCTS

Calcium Nitrate 51% Liquid

May 2020

Origin: The Netherlands

EC FERTILISER

Reach Reg. 01-2119495093-35

Section 1 | Description

Brand name	Van Iperen Calcium Nitrate 51% Liquid
Chemical name	Calcium dinitrate solution
Chemical formula	$\text{Ca}(\text{NO}_3)_2$
Appearance	Colourless liquid

Section 2 | Chemical composition

Total Nitrogen (N)	8.7% +/- 0.4% w/w 13% +/- 0.6% w/v
Nitric Nitrogen (N-NO ₃)	8.7% +/- 0.4% w/w 13% +/- 0.6% w/v
Calcium Oxide (CaO)	17.5% +/- 0.9% w/w 26.2% +/- 1.3% w/v
Calcium (Ca)	12.5% +/- 0.9% w/w 18.7% +/- 1.3% w/v

Section 3 | Heavy metals

Arsenic (As)	< 1mg/kg	Lead (Pb)	< 1mg/kg
Cadmium (Cd)	< 1mg/kg	Chloride (Cl)	< 0.01%
Chrome (Cr)	< 1mg/kg	Sodium (Na)	< 0.01%
Mercury (Hg)	< 1mg/kg		

Section 4 | Physical properties

Density	1.5 +/- 0.01kg/L
pH	3.7 +/- 1.3 6 +/- 1 (in 10% solution)
Crystallization temperature	< -15°C

STRAIGHTS | CALCIUM PRODUCTS

Calcium Nitrate

Horticultural Grade

September 2020

Origin: Czech Republic

EC FERTILISER

Reach Reg. 01-2119495093-35 +
01-2119490981-27

Section 1 | Description

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

Section 2 | Chemical composition

Total Nitrogen (N)	15.5% w/w
Nitric Nitrogen (N-NO ₃)	14.3% w/w
Ammoniacal Nitrogen (N-NH ₄)	1.2% w/w (< 1.5% w/w)
Calcium Oxide (CaO)	26.3% w/w
Calcium (Ca)	18.8% w/w

Section 3 | Heavy metals

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

Section 4 | Physical properties

Density	1.1 +/- 0.2g/cm ³
pH	6 +/- 1 (in 10% solution) 6.5 +/- 0.5 (in 1% solution)
Electric conductivity (EC)	1.3 +/- 0.2mS/cm (in 0.1% solution) 10.1 +/- 1mS/cm (in 1% solution)
Solubility	1288g/L
Insolubles	< 0.1%
Granulometry	2-5mm > 90% < 1mm < 3% > 10mm < 0%