



Knowledge grows

SODIUM BICARBONATE

Rumen Buffer (V34990)

Sales specification

Product Properties	Typical Values
NaHCO ₃	99.9 %
Sodium	27.4 %
Chloride	20 ppm
pH (5 g/100 ml solution)	<8.6

Undesirable Elements	Typical Analysis
Lead	< 1 ppm
Arsenic	< 0.1 ppm
Cadmium	< 0.1 ppm
Mercury	< 0.1 ppm
Nitrate	< 5 ppm
Fluoride	< 10 ppm

Physical Properties	
Appearance	Crystalline, white odourless powder
Density (kg/dm ³)	2.218
Solubility in water at 20°C (g/kg)	96
pH (5 g/100 ml solution)	< 8.6

Identification

Chemical Substances: Sodium Bicarbonate NaHCO₃

Synonyms: Baking soda, sodium hydrogen carbonate, bicarbonate of soda, monosodium carbonate, sodium acid carbonate

CAS No. 144-55-8
EINECS no 205-633-8

Description

SODIUM BICARBONATE is a white, crystalline compound produced by the Solvay method developed by Ernest Solvay, using sea salt, ammonia and carbonic acid. This process produces a Sodium bicarbonate of very high purity.

Nutritive value

SODIUM BICARBONATE is a raw material extensively used in the animal feed industry. Research has shown that Sodium bicarbonate increases the rumen pH of ruminant animals to produce a more desirable rumen fermentation and increases rumen fluid outflow. SODIUM BICARBONATE can also aid in increasing the production performance of animals subjected to heat stress.

Recommended use / application

SODIUM BICARBONATE is used in the production of feed for all animal species (cattle, sheep, pig, poultry).

In **ruminant nutrition**, sodium bicarbonate stabilizes the rumen pH and increases the buffer capacity of the rumen. SODIUM BICARBONATE assists in the prevention of rumen acidification when ruminants are fed high concentrate diets or are subjected to environmental stress factors such as heat stress.

In **poultry and pig diets**, SODIUM BICARBONATE can provide an alternative source of sodium for pigs and poultry and is effective to optimize the electrolyte balance. SODIUM BICARBONATE can also increase the production performance of animals exposed to heat stress.

Classification, labelling and packaging

SODIUM BICARBONATE is packed in 25 kg polypropylene bags.

Handling and storage

SODIUM BICARBONATE should be stored under cover in a dry place to ensure a shelf life of at least 2 years.

Transport and transport regulation

SODIUM BICARBONATE is non flammable and not classified as hazardous under transport regulations.



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