

Mineral Fact Sheet

Sodium bicarbonate	
Formula:	NaHCO ₃
CAS No.:	144-55-8
EC No.:	205-633-8
Feed Materials Catalogue:	11.4.2
Manufacturing Process:	
<p>Sodium bicarbonate is obtained using soda ash as raw material which has been produced starting from limestone and rock salt (Solvay - process). The sodium bicarbonate is precipitated by introducing carbon dioxide into a concentrated sodium carbonate solution. After filtration and drying the bicarbonate is obtained as a white crystalline powder.</p>	
Characteristics:	
Sodium bicarbonate	98 % min.
Sodium	27 % min.
Undesirable substances	conform to Directive
Appearance	fine, white powder
Apparent density	0.8 – 1.3 kg/l
Handling, storage, toxicity:	
Non toxic	
Avoid heating above 60° C (decomposition to sodium carbonate)	
Keep away from acids (formation of CO ₂ gas)	
Store in a dry and cool place	
Keep away from reactive products (acids etc.)	
Specific information:	
<p>Cattle: prevents ruminal acidosis and its consequences, has great pH buffering properties, increases dietary cation-anion-difference, enhances the rate of digestion of cellulose</p> <p>Pigs: represents a source of sodium without chloride, prevents metabolic acidosis and heat stress, ameliorates the lean meat percentage, stimulates the ingestion of sows after birth</p> <p>Poultry: represents a source of sodium without chloride, increases electrolytic balance reinforces the quality of shell, prevents heat stress and its consequences</p>	