

# Dr. Paul Lohmann® – your competent partner for high value mineral salts

With over 130 years of producing mineral salts that meet only the highest quality standards, we have established ourselves as a leading global supplier to the pharmaceutical, nutritional supplement, food, and personal care industries.

## Certification

- ◆ GMP and DIN EN ISO 9001:2015 certified production sites
- ◆ FSSC 22000/ISO 22000 certified
- ◆ Successfully inspected production site in Emmerthal by FDA (U.S. Food and Drug Administration) in the context of FSMA (food safety modernization act)

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**Dr. Paul Lohmann®**

High value mineral salts

[www.lohmann4minerals.com](http://www.lohmann4minerals.com)



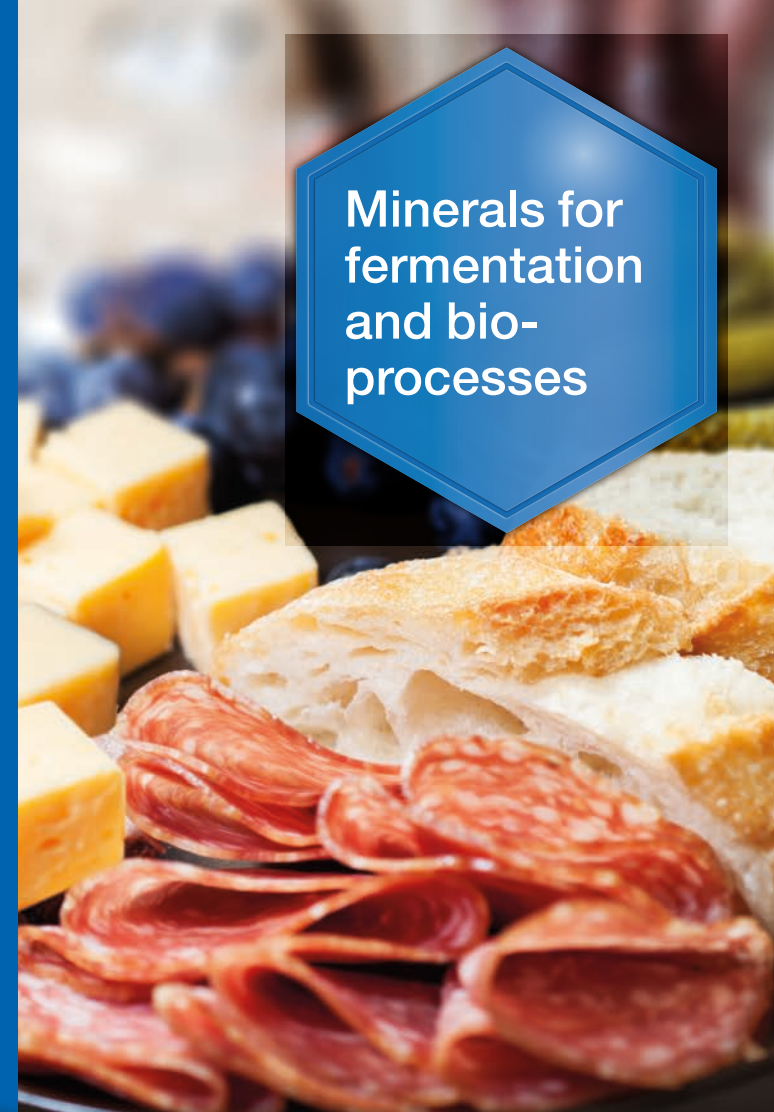
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Minerals for  
fermentation  
and bio-  
processes

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## Product range

Product	Appearance	Quality	Function
<b>Acetate</b>			
Calcium Acetate	powder or fine granules	E 263 or FCC or USP	buffering agent
Calcium Acetate Solution	solution	chem. pure	buffering agent
Sodium Acetate, anhydrous	powder	E 262(i) or FCC or USP	buffering agent
Sodium Acetate 3-hydrate	crystals	E 262(i) or FCC or USP	buffering agent
Sodium Acetate Solution	solution	chem. pure	buffering agent
<b>Carbonate</b>			
Sodium Carbonate, anhydrous	powder or fine powder	E 500(i) or FCC or Ph.Eur.	buffering agent
<b>Citrate</b>			
Ferric Ammonium Citrate, brown	powder	FCC or USP	nutrient
Ferric Ammonium Citrate Solution	solution	purity acc. to USP XIV or chem. pure	nutrient
<b>Formate</b>			
Ammonium Formate	crystalline powder	chem. pure	buffering agent
Ammonium Formate Solution	solution	chem. pure	buffering agent
Calcium Formate	powder or crystalline powder	chem. pure	buffering agent
Sodium Formate	crystalline powder	DAB	buffering agent
<b>Propionate</b>			
Sodium Propionate	powder or granules	E 281 or FCC or Ph.Eur.	buffering agent
Sodium Propionate Solution	solution	purity acc. to NF	buffering agent
<b>Sulfate</b>			
Copper(II) Sulfate, anhydrous	powder	Ph.Eur.	nutrient
Copper(II) Sulfate 1-hydrate	powder or micronized powder	chem. pure	nutrient
Copper(II) Sulfate 5-hydrate	crystalline powder	Ph Eur. or USP or FCC	nutrient
Ferrous Sulfate, dried	powder or fine powder	FCC or USP or Ph.Eur.	nutrient
Ferrous Sulfate 7-hydrate	crystals	FCC or USP or Ph.Eur.	nutrient
Magnesium Sulfate 7-hydrate	crystals	FCC	nutrient
Manganese(II) Sulfate 1-hydrate	crystalline powder	FCC or USP or Ph.Eur.	nutrient
Zinc Sulfate 1-hydrate	powder or fine powder	FCC or USP or Ph.Eur.	nutrient
Zinc Sulfate 7-hydrate	crystalline powder or crystals	FCC or USP or Ph.Eur.	nutrient



### Function

- ◆ Buffering agent
- ◆ Nutrient

## Additives for food biotechnology

Microorganisms are widely used in the production of various food products and food ingredients like organic acids such as citric acid or lactic acid, as well as amino acids and vitamins. Microorganisms can also act as food ingredient per se, e.g. yeasts for the bakery and beverage industry or starter cultures for the dairy and meat industry.

To support the fermentation process, Dr. Paul Lohmann® offers a range of high-quality mineral salts designed to meet the customers requirements.

Mineral salts can offer crucial benefits in bioprocessing and fermentation processes by providing nutrients to microorganisms. Additionally, mineral salts can act as additive, for example, as buffering agent.

Due to strictly defined production processes based on a strictly controlled raw material use, Dr. Paul Lohmann® offers consistent and stable product quality offering a safe and simple way to secure your biotechnological operation.