

# Intermediates for Pharmaceutical Applications

TRADITION MEETS INNOVATION



alzchem  
group



**GUANIDINE SALTS  
(BIOSELECT®)**



**CREATINE MONOHYDRATE  
(CREAVITALIS®)**



**CUSTOM  
SYNTHESIS**



**HYDROGEN**

## Bioselect®

**HIGH-QUALITY GUANIDINE SALTS FOR BIOTECHNOLOGICAL, DIAGNOSTIC AND PHARMACEUTICAL APPLICATIONS.**

Product	CAS-No.	Application/Active Pharmaceutical Ingredient
Buffer Solutions	–	Customized buffer formulations based on guanidine hydrochloride or guanidine thiocyanate for biopharma & molecular diagnostics applications.
Guanidine Hydrochloride technical grade	50-01-1	Sulfadiazine, sulfamethazine, folic acid
Guanidine Thiocyanate ultrapure, L-GTC 5,5M	593-84-0	Virus and bacteria diagnostics test kits/sample preparation for PCR-based diagnostics. E.g. extraction of RNA for Covid-19 PCR test kits. Auxiliary reagent for the isolation of nucleic acids.
Ultrapure Guanidine Hydrochloride liquid & solid grades in different purities	50-01-1	Purification of Biologics, i.e. monoclonal antibodies and recombinant proteins, such as Epoetin, Infliximab, Ustekinumab & Biosimilars.

## Creavitalis®

**CREATINE AS A GAME CHANGER FOR VITALITY AND WELL-BEING BY SUPPORTING THE ENERGY METABOLISM.**

Product	CAS-No.	Application
Creatine Monohydrate	6020-87-7	Ingredient for health markets (for studies about creatine see: <a href="http://www.creatineforhealth.com">www.creatineforhealth.com</a> )

## Custom Synthesis

**BUILDING BLOCKS & INTERMEDIATES – RELIABLE SUPPLY “MADE IN GERMANY” FOR OUR PHARMA CUSTOMERS.**

Product	CAS-No.	Application/Active Pharmaceutical Ingredient
4-Aminobenzamidine-hydrochloride	2498-50-2	Dabigatran
5-Azacytosine	931-86-2	5-Azacytidine, Decitabine
2-Chloro-4,6-dimethoxy-1,3,5-triazine	3140-73-6	Peptide coupling agent
2,4-Diamino-6-hydroxypyrimidine	56-06-4	Pemetrexed
Methyl-4-bromo benzoic acid	619-42-1	Pemetrexed
2-Methyl-5-nitrophenylguanidine	152460-07-6	Imatinib
2-Methyl-5-nitrophenylguanidine nitrate	152460-08-7	Imatinib
Triethylsilane	617-86-7	Selective agent / hydrosilylation

## Hydrogen Cyanamide

**CYANAMIDE – FOR THE SYNTHESIS OF PHARMACEUTICAL ACTIVES.**

Product	CAS-No.	Application/Active Pharmaceutical Ingredient
Cyanamide F1000 Cyanamide L500	420-04-2	Albendazole, Fenbendazole, Imatinib

## Dicyandiamide

**DICYANDIAMIDE – 70 YEARS OF SUSTAINABLE COMPETENCE AND RESPONSIBILITY, ESPECIALLY FOR THE API (ACTIVE PHARMACEUTICAL INGREDIENT) IN “METFORMIN”.**

Product	CAS-No.	Application/Active Pharmaceutical Ingredient
TROPHARM	461-58-5	Metformin



CYANAMIDE



DICYANDIAMIDE

NITRILES  
(NITRALZ®)

THIOUREA

## NITRALZ®

OUR NITRALZ® PRODUCTS ARE USED AS INTERMEDIATES FOR API (ACTIVE PHARMACEUTICAL INGREDIENT) PRODUCTION. VIA SPECIAL DISTILLATION WE ACHIEVE HIGH QUALITY AND PURITY.

Product	CAS-No.	Application/Active Pharmaceutical Ingredient
4-Aminobenzonitrile	873-74-5	Dabigatran, Rilpivirine
2-Chlorobenzonitrile	873-32-5	Ketamine hydrochloride, Sartanes
4-Chlorobenzonitrile	623-03-0	Itopride hydrochloride, Letrozole
2,4-Dichlorobenzonitrile	6574-98-7	Dolutegravir
Isobutyronitrile	78-82-0	Fexofenadine, Solvent
4-Tolunitrile	104-85-8	Acrivastine, Anastrozole, Cetraxate, Letrozole
Valeronitrile	110-59-8	Sartanes, Solvent, Valproate

## Thiourea

WE'D LIKE TO SHARE OUR STRENGTH OF 50 YEARS' EXPERIENCE IN PRODUCTION, STORAGE, HANDLING AND LOGISTIC WITH YOU.

Product	CAS-No.	Application/Active Pharmaceutical Ingredient
Thiourea pharma grade	62-56-6	Intermediate for Lab / R&D / pharma production

# Back to Europe – Your Benefits



### RELIABILITY & HIGH QUALITY

“Made in Germany” – We are the only western manufacturer for most of the product groups and have an integrated European based supply chain with a strong effort on backward and forward integration.



### OUR CUSTOMER ORIENTATION

We offer a high, flexible and agile standard to service our partners, including technical support and our focus is on long-term customer relationships.



### INNOVATION

We have new ideas regarding advanced intermediates and support your product development.



### SUSTAINABILITY, HEALTH & SAFETY

Our manufacturing processes are eco-friendly and we put our attention on a sustainable production. We have a safety initiative and we perform accident analysis.



### OUR KNOW-HOW

Alzchem is successfully positioning itself on the specialty chemicals markets with proven and new products related to NCN chemistry based on a long time of experience and core-competence.

# BENEFITS OF THE "VERBUND" SYSTEM APPROACH

- Full control of product quality and specifications
- Lower costs
- Higher financial predictability
- Certainty of supply
- Economies of scale
- Low carbon footprint



**POPULATION GROWTH**



**LONGER LIFE EXPECTANCY**

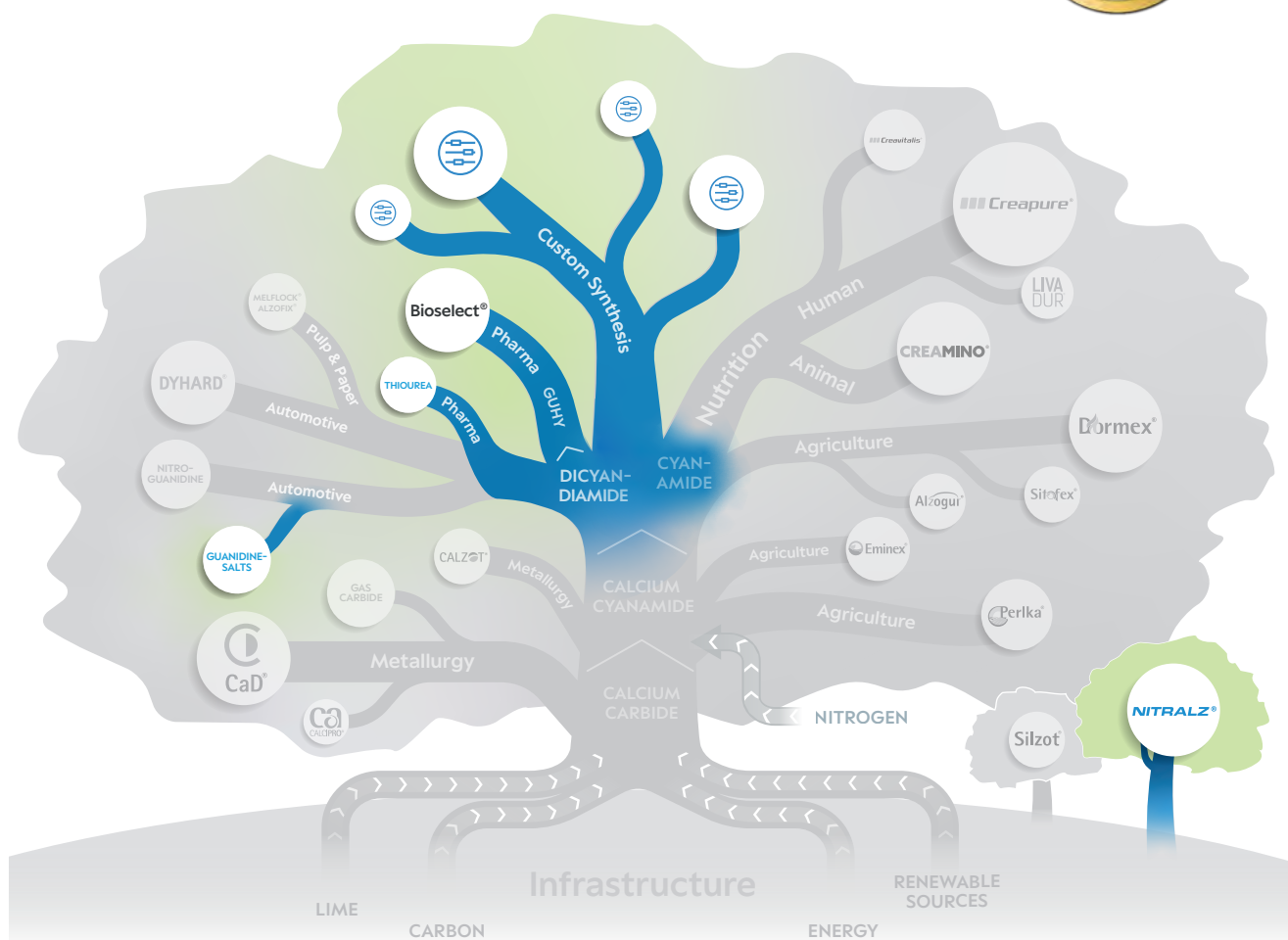


**CLIMATE CHANGE**



**SUSTAINABILITY**

We combine our integrated Production Verbund with innovative products to provide customer-focused applications in the pharma market. This vertical integration in production is a key strength of the Alzchem Group.



If you cannot find the required raw material or intermediate in our brochure, please feel free to contact us and we look forward to supporting your request.



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