



Raw Materials

for vaping & nicotine pouches

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About us

A-Sense is Polish chemical company founded in 2017. Our company operates in the heart of agricultural Poland and has access to many raw materials of natural origin. **Always a very important factor in our activity is conducting research and development works and continuous development of our products.**

We also have a very well-equipped analytical laboratory (LCMS, GCMS) and we provide chemical analysis services. **The most important thing for us is the quality of our products.** Quality is our mission and goal no.1.

We focus on communication with the customer and the quality of our customer service, including speed of delivery. We control the entire production process - from the raw material to the final product.

Offer for B2B clients, without competing with customers

Products of highest, repeatable quality

Flexibility and openness to all technologies



Products customized to specific customer needs

Full product responsibility

Advanced R&D department

On the market since 2017

Over 80 employees

EU Reach up to 100 tons

Pure Nicotine EP/USP

Introducing A-Sense Pure Nicotine EP/USP. Designed to meet the highest industry standards, Pure Nicotine delivers unparalleled quality, ensuring exceptional performance in a wide range of applications.

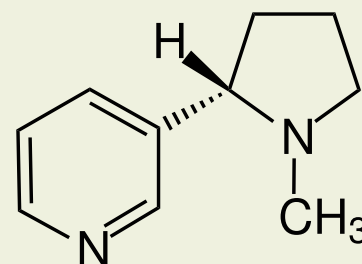


CAS No.: 54-11-5

EC/List No.: 200-193-3

Molecular formula: C₁₀H₁₄N₂

EU REACH up to 100 tons registered.



Unmatched Purity

Nicotine EP/USP sets the benchmark for purity. Crafted through rigorous processes, it undergoes stringent quality control measures to meet the most stringent purity requirements. Rest assured, you are working with a product of utmost purity and free from contaminants.

Consistent Quality

With A-Sense Pure Nicotine, you can expect a consistently high-quality product with every batch. Our commitment to quality ensures that you receive a reliable and dependable nicotine solution that aligns with your expectations and requirements. Each batch of product is tested by HP/LC and GC/MS chromatograph. We provide a chromatogram, quality certificate and MSDS for each delivery.

Expert Support

With A-Sense Pure Nicotine EP, you gain more than just a premium product. Our dedicated team of experts is here to assist you every step of the way. From technical support to regulatory guidance, we are committed to helping you maximize the potential of Pure Nicotine in your formulations.

Regulatory Compliance

Pure Nicotine is manufactured in strict adherence to industry regulations and guidelines. We prioritize safety and ensure full compliance with applicable standards, giving you peace of mind and confidence in the products you create.

Certified Quality and Unmatched Purity

At A-Sense, we take **nicotine quality and safety** to the highest level. Our pure nicotine undergoes rigorous testing and analysis to ensure compliance with the strictest industry standards. We provide **comprehensive documentation**, including detailed analytical reports, stability studies, and regulatory data, giving our clients full transparency and confidence in our products.

Our nicotine is

Halal Certified & **Kosher Certified**

Meets the requirements of global markets and diverse customer needs. Each batch is tested using advanced analytical techniques, ensuring exceptional purity, consistency and compliance with international regulations.

Certified Nicotine for the Most Demanding Industries

With a wealth of research, certifications, and quality documentation, A-Sense delivers nicotine that meets the highest expectations of pharmaceutical, vaping, and nicotine pouch manufacturers worldwide. We are committed to scientific excellence and regulatory compliance, providing our customers with all necessary documentation to streamline their product development and approval processes.

A-Sense Pure Nicotine provides a smooth and satisfying nicotine experience. Its exceptional quality ensures a clean and pleasant experience, providing users with the desired nicotine satisfaction without compromising taste or performance.

Synthetic Nicotine

Our Synthetic (R,S)-Nicotine and (S)-Nicotine is a tobacco-free, laboratory-crafted nicotine that offers exceptional purity and performance. Designed to deliver a consistent, odorless, and tasteless nicotine experience, (R,S)-Nicotine and (S)-Nicotine is the perfect alternative to traditional tobacco-derived nicotine.

- ✓ **100% Tobacco-Free** – A clean-label solution with no plant-derived contaminants.
- ✓ **Odorless & Tasteless** – Ensures the best possible sensory experience in nicotine-based products.
- ✓ **Ideal for Premium Applications** – Perfect for e-liquids, nicotine pouches, and other next-generation nicotine products.
- ✓ **Patented Innovation** – Our synthetic nicotine is backed by patented technology, ensuring a uniquely pure and high-performing nicotine solution for next-generation products.

Application & Versatility

Synthetic Nicotine is designed for brands that require a high-performance, tobacco-free nicotine alternative. Whether developing advanced vape liquids, nicotine pouches, or reduced-risk nicotine alternatives, Synthetic Nicotine offers superior consistency and formulation flexibility.

Key Differences



(R,S)- Nicotine vs **(S)- Nicotine**



(R,S)-Nicotine is a racemic mixture containing both (R) and (S) isomers, offering a balanced but slightly less bioavailable form of nicotine.

(S)-Nicotine consists of only the (S) isomer, which is the biologically active form found in natural nicotine, leading to superior effectiveness.

Sensory Experience & Consumer Satisfaction:

(R,S)-Nicotine may have slightly different sensory characteristics due to the presence of the (R) isomer, potentially leading to a less natural throat hit.

(S)-Nicotine delivers a smoother, more natural nicotine experience, closely mimicking the effects of traditional tobacco-derived nicotine, which enhances consumer satisfaction.

Nicotine Bases

Premium-Quality Nicotine Bases for a Wide Range of Applications

At A-Sense, we specialize in providing high-quality nicotine bases tailored to meet the needs of various industries. Our Nicotine Bases serve as the fundamental ingredient for e-liquids, nicotine pouches, oral nicotine products, and other nicotine formulations, offering exceptional purity, stability, and performance.

Reliable Supply & Controlled Logistics

We understand the importance of fast and secure deliveries. That's why we ensure a 2-3 day shipping time for our nicotine bases, allowing you to maintain uninterrupted production. Our logistics are fully controlled and compliant with industry regulations, guaranteeing safe and efficient transport. Whether you need small-scale or bulk orders, we provide consistent quality, traceability, and on-time delivery to support your business needs.

We offer types of bases:

- Nicotine base
- Nicotine salts base
- Hybrid base
- Synthetic nicotine base
- Synthetic salts nicotine base



Elevate Your Formulations with A-Sense Nicotine Bases

A-Sense is dedicated to supplying top-tier nicotine ingredients that empower businesses to create cutting-edge nicotine products. Whether you need standard or customized nicotine bases, we have the expertise and solutions to support your goals.

Contact us today to explore how A-Sense Nicotine Bases can enhance your formulations!

Nicotine Salts

What Are Nicotine Salts?

Nicotine salts are naturally occurring nicotine compounds formed by combining high-purity nicotine with specific acids to create a more stable, bioavailable, and less harsh formulation. Unlike traditional freebase nicotine, nicotine salts are designed to offer a faster absorption rate, reduced throat irritation, and a balanced nicotine release, making them perfect for products requiring a smoother nicotine delivery.

Nicotine Salts vs. Freebase Nicotine

Key Differences

Absorption Rate & Bioavailability

- Nicotine salts are absorbed more efficiently and quickly into the bloodstream due to their stable chemical structure, mimicking natural nicotine absorption in the body.
- Freebase nicotine takes longer to be absorbed and requires higher temperatures for optimal vaporization.

Throat Hit & Smoothness

Nicotine salts provide a smoother and less harsh experience, even at higher nicotine concentrations, making them ideal for products targeting ex-smokers or high-nicotine users.

Freebase nicotine tends to be harsher on the throat, especially at higher strengths.

Stability & Shelf Life

- Nicotine salts are more chemically stable and less prone to oxidation, meaning they retain their potency and clarity over time.
- Freebase nicotine oxidizes more easily, leading to discoloration and potential changes in taste and effectiveness.

Nicotine benzoate (1:1)

CAS Number: 88660-53-1

Shelf life: 1 year

Freebase nicotine content: 57,05%

Appearance: White powder/crystal



Nicotine lactate (2:1)

CAS Number: 15197-02-1

Shelf life: 1 year

Freebase nicotine content: 47,38%

Appearance: Transparent liquid

Nicotine salicylate (1:1)

CAS Number: 29790-52-1

Shelf life: 1 year

Freebase nicotine content: 54,01%

Appearance: White powder



Nicotine pyruvate (2:1)

CAS Number: -

Shelf life: 1 year

Freebase nicotine content: 47,95%

Appearance: Yellow liquid

Nicotine malate (1:1)

CAS Number: 73057-36-0

Shelf life: 1 year

Freebase nicotine content: 54,75%

Appearance: White powder



Nicotine levulinate (3:1)

CAS Number: -

Shelf life: 1 year

Freebase nicotine content: 31,77%

Appearance: Yellow liquid

Nicotine bitartrate dihydrate (2:1)

CAS Number: 6019-06-3

Shelf life: 1 year

Freebase nicotine content: 32,55%

Appearance: White powder



Raw materials for nicotine pouches

All Essential Raw Materials for Production

A-Sense supplies all necessary raw materials for nicotine pouch manufacturing, ensuring consistency, purity, and premium quality. Our raw material offering includes:

Nicotine	<i>High-purity freebase nicotine, nicotine salts, or nicotine polacrilex for optimal absorption and performance.</i>
Flavorings	<i>A wide selection of customizable flavor profiles, from classic, mints to innovative fruit and botanical blends.</i>
Stabilizers & Moisturizing Agents	<i>Ensuring product longevity, consistency, and user satisfaction.</i>
Sweeteners & Cooling	<i>All the raw materials that will give your products sweetness and a touch of cold</i>
Microcrystalline cellulose	<i>Main raw material for production, wide range of MCC with different grades and release profiles</i>

End-to-End OEM Production Capabilities

Our OEM nicotine pouch production services enable brands to bring their products to market quickly and efficiently. We provide support in every aspect of development, from recipe formulation to full-scale manufacturing, ensuring high-performance and consumer satisfaction.

Key OEM Capabilities:

- **Custom Recipe Creation & Development** – Tailor-made nicotine pouch formulations to match specific brand requirements.
- **Advanced Nicotine Release Profile Customization** – Ability to fine-tune nicotine absorption rates and intensity levels for optimized user experience.
- **Regulatory-Compliant Formulations** – Ensuring adherence to industry regulations and quality standards.
- **Scalable Production & Customization** – Flexible batch sizes, private-label options, and customized packaging solutions.

Custom Nicotine Release Profile Development

We provide the ability to determine and optimize the nicotine release profile, tailoring the experience to specific consumer needs. Our expertise in nicotine formulation allows for:

Fast-Acting Nicotine Release

Ideal for users looking for a strong, immediate nicotine hit.

Extended-Release Formulations

Gradual, sustained nicotine delivery for long-lasting satisfaction.

Hybrid Nicotine Release Profiles

Combining instant and slow-release effects to create a balanced experience.



Why Choose A-Sense for Nicotine Pouch Development?

With deep expertise in nicotine chemistry, formulation, and manufacturing, A-Sense provides a one-stop solution for nicotine pouch production. Whether you are launching a new brand or improving an existing product, we offer the raw materials, formulation expertise, and production capabilities to bring your vision to life.

Partner with A-Sense for Cutting-Edge Nicotine Pouch Solutions

As a leader in nicotine innovation, we help brands create premium nicotine pouches with customizable formulations, optimized nicotine release profiles, and top-tier raw materials.

*Contact us today to discuss **how A-Sense can support your nicotine pouch production and development needs!***

Nicotine Polacrilex

ADVANCED NICOTINE FOR CONTROLLED RELEASE APPLICATIONS

What Is Nicotine Polacrilex?

Nicotine Polacrilex is a nicotine-polymer complex, where nicotine is bound to an ion-exchange resin, allowing for a gradual and controlled release when exposed to saliva or other moisture-based environments. This advanced formulation enhances nicotine absorption efficiency, stability, and therapeutic effectiveness, making it a preferred choice in regulated nicotine delivery systems.

Key Features & Benefits

Controlled Nicotine Release

Provides a steady, prolonged nicotine release for effective craving management.

Pharmaceutical-Grade Purity

Manufactured under stringent quality control to meet regulatory standards.

Stable & Long Shelf Life

Resistant to oxidation and degradation, ensuring long-term product reliability.

Customized Nicotine Release Profile with Nicotine Polacrilex

With advanced expertise in nicotine science and formulation engineering, A-Sense offers customizable Nicotine Polacrilex designed to meet diverse product requirements. Our precise control over release profiles allows us to tailor nicotine delivery to specific applications, ensuring optimal performance and consumer satisfaction. Through rigorous R&D and cutting-edge production techniques, we provide solutions that align with industry needs, from rapid to extended-release formulations, all while maintaining the highest standards of quality and regulatory compliance.

Why Choose A-Sense Nicotine Polacrilex?

With extensive experience in nicotine science and product innovation, A-Sense delivers high-quality Nicotine Polacrilex that meets the demands of pharmaceutical-grade formulations. Our precise manufacturing processes and rigorous quality control ensure that every batch meets the strictest industry and regulatory requirements.

We offer Nicotine Polacrilex in many variants

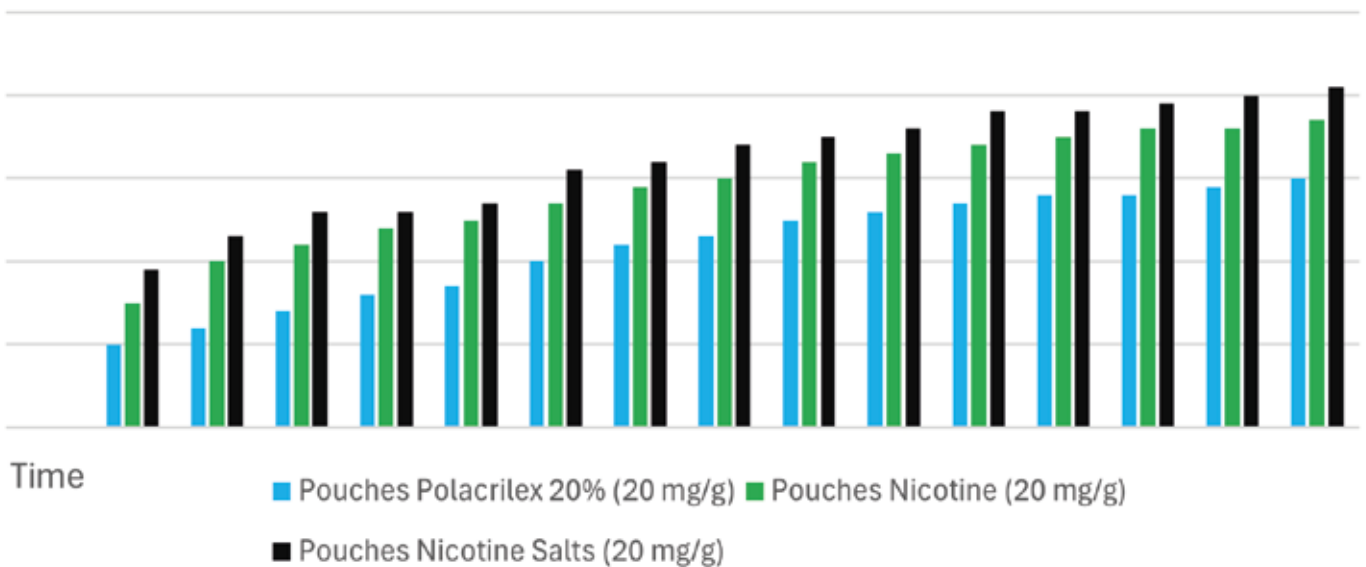
Nicotine Polacrilex 20%

Nicotine Polacrilex up to 40%

S-Nicotine Polacrilex 20%

S-Nicotine Polacrilex up to 40%

Nicotine release profile diagram



Flavors

At A-Sense, we specialize in providing **high-quality, TPD-compliant flavors** for a wide range of applications. Designed to enhance sensory experiences, our flavors offer unmatched purity, consistency, and performance. With in-house production, we maintain full control over the entire manufacturing process, ensuring the highest quality standards, traceability, and customization to meet our clients' specific needs.

Our Flavor Categories

Flavors for Vaping

Specifically formulated for e-liquids, ensuring rich taste profiles and smooth vapor production. Available in classic tobacco, menthol, fruit, dessert, and beverage-inspired varieties.

Flavors for Nicotine Pouches

Optimized for oral nicotine products, providing intense, long-lasting flavor without overpowering the base formulation. Special line of flavors based on MCT Oil.

Terpenes

Naturally derived botanical terpenes that enhance aroma and flavor, offering authentic plant-based sensory experiences.

Essential Oils

A selection of natural essential oils that enhance aromatic profiles.

Flavors for Shisha

Designed for waterpipe and hookah tobacco, offering deep, long-lasting taste with exceptional heat stability.

Flavors for Cards & Capsules

Developed for capsules and filter cards, allowing for flavor activation in traditional tobacco and nicotine products.

High Concentrated Flavors

Ultra-potent flavor concentrates for maximum flexibility in custom formulations and industry applications.



Key Features & Benefits

- TPD-Compliant Formulations** All flavors meet Tobacco Products Directive (TPD) regulations, ensuring safety, compliance, and quality assurance.
- Superior Stability & Consistency** Engineered for optimal performance in various nicotine and vapor-based products.
- Customizable Flavor Profiles** Available in tailor-made blends to match brand preferences and market trends.
- Natural & Synthetic Options** Offering a range of natural extracts, synthetic flavors, and terpene blends.

Creation Lab – Tailored Flavor Innovation

At A-Sense, we understand that every brand has unique flavor needs. Our Creation Lab offers the ability to develop completely new compositions based on client specifications. Whether you're looking for custom flavor blends, innovative formulations, or exclusive signature profiles, our expert team will work closely with you to craft flavors that match your vision. With advanced R&D capabilities, we ensure that each creation meets market trends, regulatory compliance, and consumer expectations.

Why Choose A-Sense Flavors?

With expertise in nicotine-related formulations and flavor chemistry, A-Sense provides flavors that meet regulatory standards, consumer expectations, and brand-specific requirements. Our team works closely with manufacturers to develop customized solutions that align with market trends and innovation.

Contact us today to explore our **extensive flavor portfolio** and discover how A-Sense can support your next product launch!

Caffeine

Natural Caffeine – Clean & Sustainable Energy

Derived from, coffee beans, guarana, and other botanical sources, natural caffeine is a preferred choice for brands seeking a clean-label, plant-based alternative. It provides smoother, longer-lasting energy, without the harsh spikes and crashes associated with synthetic sources.

Precision, Purity, and Performance

Caffeine is a powerful stimulant widely used across industries, from energy drinks and sports supplements to pharmaceuticals and **nicotine pouches**. At A-Sense, we specialize in **high-quality natural caffeine**, offering clean, reliable, and sustainable energy solutions for innovative product formulations.

Comprehensive Documentation & Quality Assurance

At A-Sense, we provide full documentation on our caffeine products, ensuring compliance with regulatory standards and transparent sourcing. Whether you need natural or synthetic caffeine, we guarantee top-tier quality, traceability, and formulation support.

Power Your Products with A-Sense Caffeine

Whether you're developing nicotine pouches, energy drinks, supplements, or functional products, A-Sense delivers high-quality caffeine solutions tailored to your needs.

Contact us today to explore our **caffeine offerings** and discover how A-Sense can elevate your product formulations!

Additives

INNOVATIVE INGREDIENTS FOR ENHANCED PERFORMANCE & CUSTOMIZATION

We offer a comprehensive range of high-quality additives designed to improve the performance, stability, and sensory experience of products in the vaping and nicotine pouches industry. Our advanced formulations help manufacturers create premium-quality e-liquids, nicotine pouches, and alternative nicotine products that stand out in the market.

Colling agents

- WS-3,
- WS-5,
- WS-23,
- Menthol,
- Cool-air

Sweeteners

- Xylitol,
- Acesulfame-K,
- Erythritol,
- Sucralose,
- Neotame

Gum and stabilizers

- Arabic Gum,
- Xanthan Gum,
- Guar Gum

Others

- Sodium Carbonate
- Sodium Bicarbonate
- Sodium Alginate
- Crystalline Microcellulose
- Potassium Sorbate
- Potassium Carbonate
- Sodium Citrate
- Sodium Chloride
- MCT oil
- Ethyl Maltol
- Acids

We have the capability to produce or source everything you require, tailored to your needs.

Get in touch with us today to **explore our range of additives** and see how A-Sense can enhance your product formulations!

Laboratory tests and R&D department

A-SENSE IS CONSTANTLY EXPANDING R&D DEPARTMENT, TO CREATE NEW PRODUCTS AND MAKE BETTER ANALYSIS.

At A-Sense, we operate **state-of-the-art laboratories** equipped with a comprehensive range of cutting-edge instruments, including autoclaves, fume hoods, evaporators, chromatographs, and many more specialized tools. Our R&D team focuses on developing cost-optimized synthetic pathways, refining and modifying existing production processes, and pioneering entirely new product innovations. The challenges we tackle daily span organic synthesis, technology, engineering, material science, and analytical chemistry. **To ensure the highest level of expertise, we collaborate with external consultants, complementing our in-house team with additional knowledge and experience.**

With dedicated **scalable reaction systems** and close collaboration between scientists and engineers, we ensure seamless transition from **research to full-scale production**. Our **Chemical Synthesis Department** utilizes advanced equipment like **pressure reactors and molecular distillation units**, guaranteeing exceptional purity and consistency.

We've got:

GC/MS

LC/MS

LC/UV

TITRATION

Each product that we manufacture undergoes a series of tests to ensure the highest possible quality. We work on best equipment for example: Shimadzu, Heidolph.



SIGMA-ALDRICH®

 SHIMADZU
Excellence in Science

 ROTH

 heidolph
research made easy

 ThermoFisher
SCIENTIFIC

Worldwide distribution and scientific cooperation

We are constantly expanding our customer base, we currently serve 36 different countries around the world. **We've got our distributors and warehouses in:**

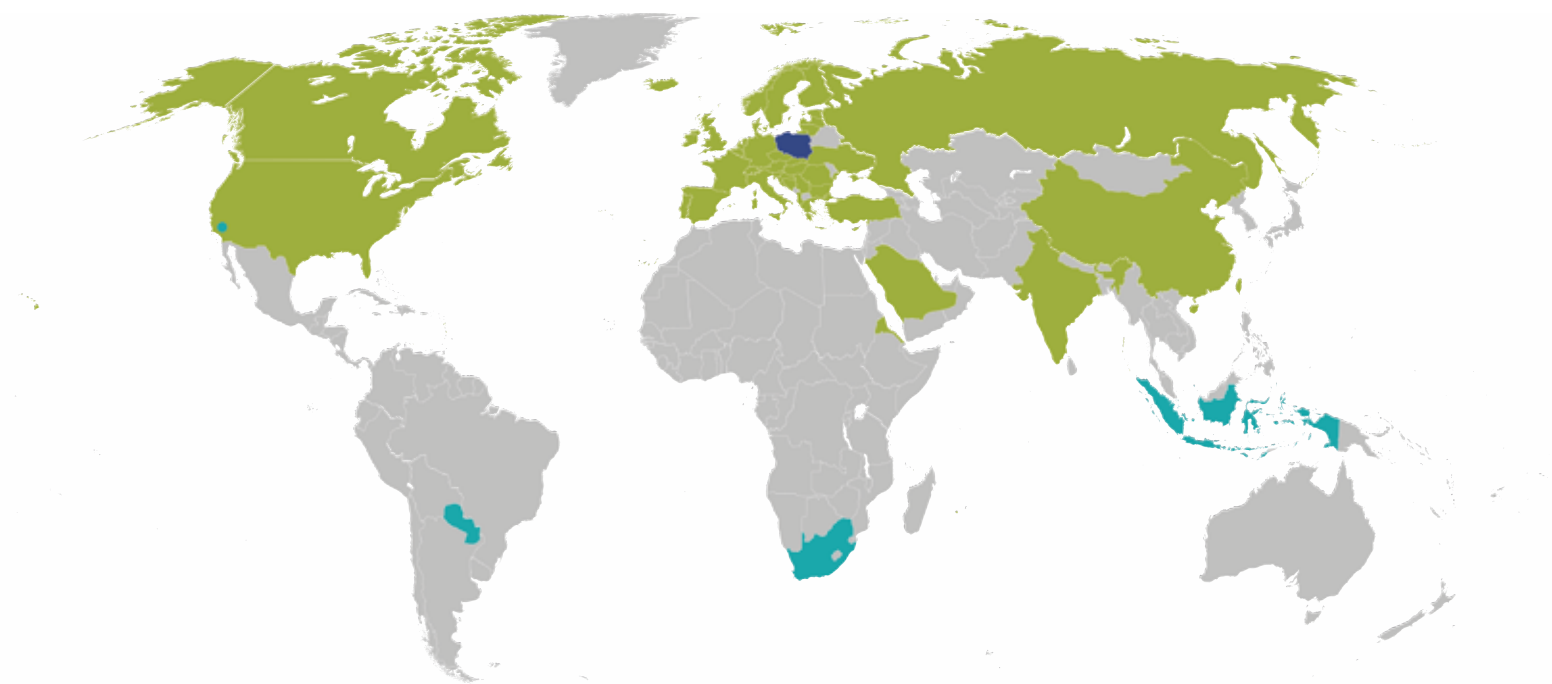
UK

USA

Paraguay

Indonesia

South Africa



AS A CHEMICAL COMPANY, WE EMPLOY SPECIALISTS FROM THE BEST POLISH UNIVERSITIES AND CONDUCT JOINT PROJECTS ON RESEARCH ON NICOTINE, CANNABINOIDS, COSMETIC RAW MATERIALS. WE RUN INTERNSHIP PROGRAMS FOR THE BEST STUDENTS.



UMCS
MARIA CURIE-SKŁODOWSKA UNIVERSITY
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**ISO certified
company**





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