

OILFIELD CHEMICALS

Versalis

OIL & GAS
REFINERY CHEMICAL
TREATMENTS



versalis
oilfield solutions

Versalis e[®]

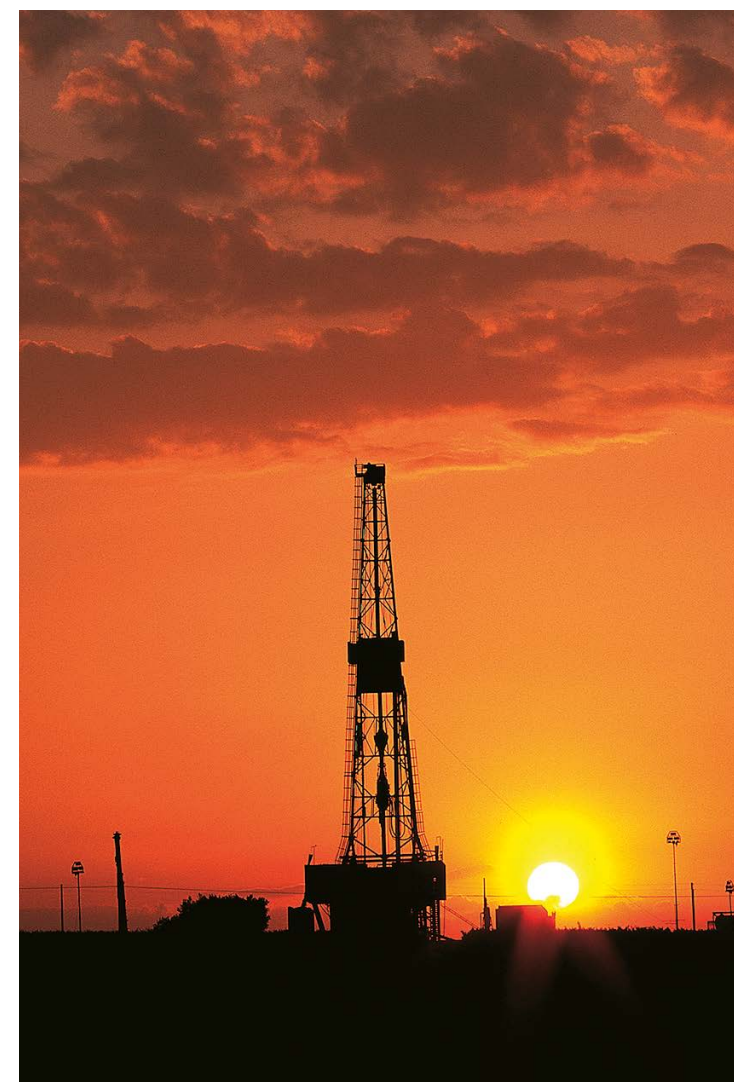
REFINERY CHEMICAL TREATMENTS

INTRODUCTION

Versalis e[®] is a dedicated product portfolio and range of specialized technical services developed by Versalis Oilfield Solutions to meet our customers' high expectations for reliable flow assurance, efficient oil/water separation and long-term asset integrity.

In order to adapt to the deep changes in the world of energy and to meet global demands, the oil and gas industry is exploring and implementing the widest range ever of diverse extraction methods, in the ongoing development of both established and new hydrocarbon reserves. As existing fields mature, and unconventional ones are discovered and implemented, new issues arise for every player in the industry.

Versalis Oilfield Solutions believes that a combination of tailored approach, best-in-class chemical products and specialized technical service operations is essential to maximize extraction from oil and gas reserves, while aiming to reduce the impact on the environment and reducing costs. The Versalis e[®] production chemicals line was designed exactly with those objectives in mind.



Versalis e® product range

Chemical Products for Refineries and Biorefineries

Versalis Oilfield Solutions offers a full range of chemical products designed to improve operational performance, safety, and equipment longevity in refineries and biorefineries. Our formulations are field-tested and lab-validated, ensuring compatibility with existing systems and tailored to meet specific plant requirements.

- **Versalis e® - bioc** Biocides for microbiological control in cooling systems and water circuits.
- **Versalis e® - bioc** Biodispersants to remove biofilm and organic deposits from closed loops and heat exchangers.

- **Versalis e® - anfo** Antifoam agents to prevent and suppress foam formation in absorber columns and separators.
- **Versalis e® - cori** product line provides final users with a range of corrosion inhibitors (mostly complex).
- **Versalis e® - auxy** Salt neutralizers to stabilize reactive salts and to improve solvent quality and system performance.

- **Amines** (MEA, DEA, MDEA) High-performance solvents for acid gas treatment units.

Auxiliary chemicals

A wide range of auxiliary chemicals is available for boilers and reverse osmosis treatments, in addition to products for dehydration and sweetening units.

PRODUCT CLASS NAME	DESCRIPTION AND INFORMATION
Versalis e® - bioc	Treatment to avoid the formation of biofilm
Versalis e® - cori	Inhibition agent used to prevent corrosion
Versalis e® - auxy	Salt Neutralizers
Versalis e® - anfo	Defoaming treatment agent preventing and resolving foaming
Amines	Gas treating solvents (MEA, DEA, MDEA) and Specialty Amines
Auxiliary chemicals	A dedicated set of products for plant utilities, treatments, maintenance and cleaning

Global Service for Refineries and Biorefineries

Versalis Oilfield Solutions provides a comprehensive Global Service program tailored to the needs of refineries and biorefineries operating amine gas treating units. Our multidisciplinary team combines field experience, process engineering, and laboratory expertise to ensure optimal performance, safety, and reliability across all phases of operation. We support both operating companies and engineering firms by sharing our deep knowledge in unit design, solvent chemistry,

troubleshooting, and process optimization. Our goal is to help clients improve plant efficiency, reduce downtime, and extend equipment life.

In addition to product supply, we offer:

- Support in selection and dosing.
- Monitoring of chemical performance.
- Integration with automatic dosing systems.
- Detailed reporting and consumption traceability.

Our Service Includes

Expert process engineers for unit supervision and control strategy optimization. Advanced simulation tools for solvent upgrades and process modeling. Daily analytical support from skilled lab technicians using high-precision instrumentation.

Troubleshooting of operational issues, including:

- Foam formation.
- Off-spec suspended solids in treated gas.
- Corrosion and HSAS management.
- Amine losses and degradation.

Rapid-response mobile services, featuring:

- Solvent filtration systems.
- Activated carbon filters for hydrocarbon removal.
- Smart chemical injection skids (antifoam, corrosion inhibitors, HSAS neutralizers).
- Inline cleaning of rich/lean amine heat exchangers.
- Solvent purification to remove contaminants such as HSAS, chlorides, bicine, and degraded amine components.
- Training programs for plant operators and laboratory technicians.
- Full analytical support from our central chemical laboratory for all types of amine solvent testing.

Customer Benefits

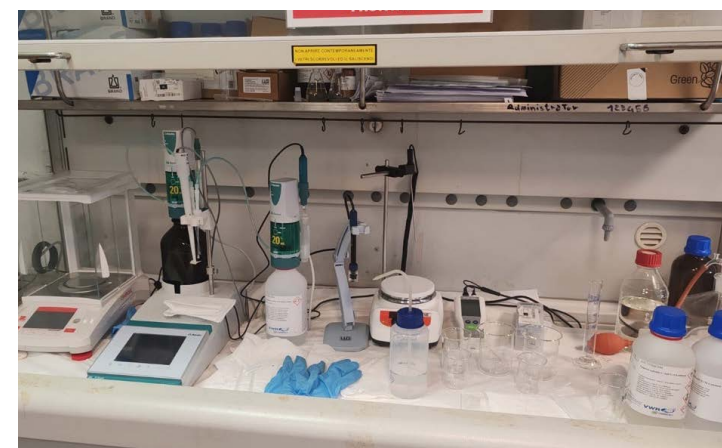
With our technical expertise and operational flexibility, we ensure:

- Field-tested and validated formulations.
- Compatibility with existing systems.
- Ongoing technical and analytical support.
- Fast delivery and inventory management.
- Customization based on client specifications.

OUR CUSTOMERS: REFINERY AND BIOREFINERY



VOS ANALYTICAL MONITORING LABORATORY FOR AMINE-BASED GAS TREATING



The VOS Analytical Monitoring Laboratory provides specialized chemical analysis services to support gas sweetening operations. The laboratory focuses on the monitoring, performance evaluation, and degradation analysis of amine solutions used in acid gas removal processes, such as CO₂ and H₂S absorption.

Versalis e[®] product range

Versalis Oilfield Solutions is part of Versalis, Eni's chemical company, that operates both nationally and internationally, offering a wide range of products and solutions – highly diversified and integrated across the entire value chain – for multiple industrial sectors, including automotive, packaging, construction, agriculture, and household appliances.

In addition to its traditional products, which are constantly evolving, Versalis is pursuing a transformation path toward the chemistry of the future, based on portfolio specialization, circularity, and biochemistry, with the goal of achieving specific decarbonization targets.

With a strong expertise in developing tailored formulations for troubleshooting and problem solving, and by constantly improving the quality and reliability of its chemical solutions, Versalis helps customers respond to the industry's overall drive for greater efficiency and productivity.

Versalis provides not only a broad range of high-quality chemicals, but also the specialized technical services associated with them, enabling companies operating in the oil and gas industry to meet their challenges in production.

To expand its presence on a global scale, Versalis has developed an internationalization process focused on making the most of all possible opportunities, in order to create synergies while still maintaining constant commitment towards quality and sustainable development, for the environment and the communities that live near our plants.





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