

# SOLUTIONS FOR YOUR BIOFUELS SUPPLY CHAIN

CHN, C-14, AND BIOFUELS TESTING



**BUREAU  
VERITAS**



# EXPERTISE IN SAMPLING AND TESTING FROM FEEDSTOCKS TO END PRODUCTS

## RENEWABLE AND BIO FUELS

Renewable or biofuels are fuels derived from renewable and low-carbon sources, such as plant or animal biomass, that can be used as alternatives to traditional fossil fuels. The use of biofuels can contribute to reducing our carbon footprint to help achieve net-zero by 2050. Bureau Veritas has the expertise to support you on your journey to net-zero.

## YOUR PARTNER IN TESTING AND INSPECTION

Government and regulatory bodies worldwide are developing new specifications and standards for sustainable and renewable fuels. More than ever, these emerging fuels need assurances that they meet the appropriate local and international qualifications.

Bureau Veritas, is your partner in ensuring that feedstocks and end products meet stringent requirements.

## WHY CHOOSE BUREAU VERITAS?



Extensive global network offers **rapid turnaround time** from sampling to certification.



**ISO 17025 accredited laboratories** in key exporting and importing countries.



**Highly experienced chemists** to support R&D and tailored analyses.



**Tailored solutions** customised to fit your exact requirements.

## ISO 17025 ACCREDITED

Our CHN and C-14 sampling and testing methods and processes have been certified by the Dutch Accreditation Council (RVA) under the ISO 17025 accreditation, which is in line with the Dutch Emissions Authority's (NEA) requirements for the analysis of renewable fuels and biofuel feedstocks.



## CHN ANALYSIS

CHN analysis is a crucial test used to determine the elemental composition of (renewable) fuels in terms of carbon (C), hydrogen (H), and nitrogen (N). This information is vital for assessing the origin (C-14 content), quality, energy content, and combustion characteristics of fuels, including renewable fuels and biofuels.

## C-14 ANALYSIS

C-14 analysis can be applied to certain types of renewable fuels and feedstocks such as biodiesel, HVO (Hydrotreated Vegetable Oil), bio-ethanol, and Sustainable Aviation Fuel (SAF), to assess their biogenic carbon content.

This is particularly important for assessing the renewable content of biofuels and feedstocks, as biofuels are derived from biomass that contain C-14, unlike fossil fuels, where C-14 is no longer present. The analysis helps in quantifying the fraction of carbon in the biofuel that originates from renewable sources.

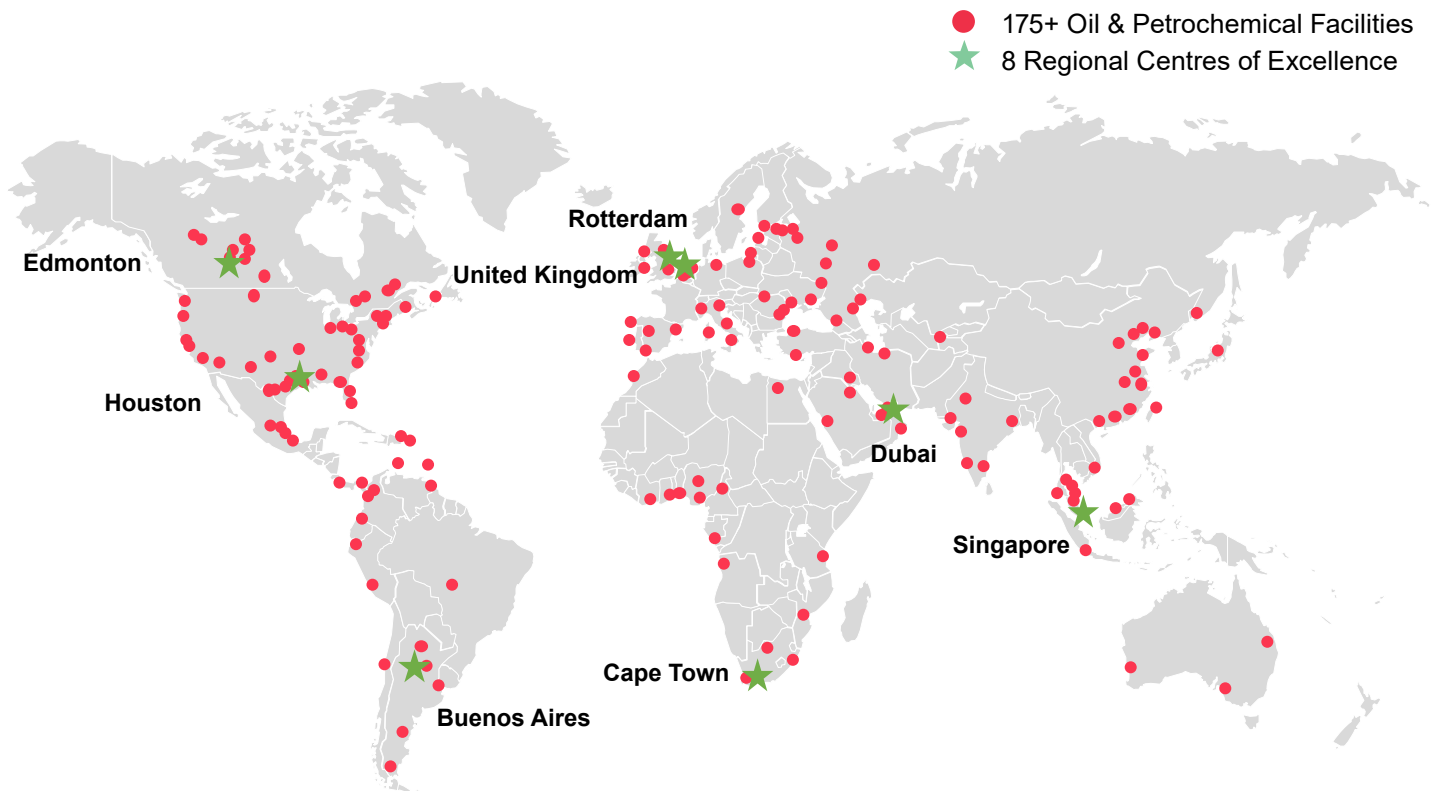
## OUR CHN AND C-14 SAMPLING AND TESTING CAN BE APPLIED TO

- | Sustainable Aviation Fuel (SAF)
- | Biodiesel (B5, B20)
- | FAME
- | HVO
- | HEFA
- | Diesel
- | Gas oil
- | Jet Fuel
- | Bio-ethanol

**We also provide custom solutions according to your needs.**  
**Contact us** to explore how we can support you.

# STRATEGICALLY LOCATED

Our network of laboratories, strategically located in key trading locations around the world, provide precision analytical testing to both internationally recognised standards and customer specific methodologies across the main industries.



---

## SHAPING A WORLD OF TRUST

Bureau Veritas is a Business to Business to Society company, contributing to transforming the world we live in. A world leader in testing, inspection and certification, we help clients across all industries address challenges in quality, health & safety, environmental protection and social responsibility.

BUREAU VERITAS COMMODITIES  
Petroleumweg 30  
3196 KD Rotterdam / NETHERLANDS  
[sales.commodities.nwe@bureauveritas.com](mailto:sales.commodities.nwe@bureauveritas.com)  
[benelux.bureauveritas.com/biofuels](http://benelux.bureauveritas.com/biofuels)



**BUREAU  
VERITAS**

Shaping a World of Trust