



Methanol

Fueling the Future of Shipping

A Practical Pathway to Maritime Decarbonisation

As the maritime industry navigates the transition to a lower carbon future, methanol has emerged as one of the most promising alternative marine fuels available today.



Why Methanol?

Reduced Emissions

- Virtually zero sulphur emissions (SOx)
- Significant reduction in particulate matter (PM)
- Lower NOx emissions compared to conventional fossil fuels (NOx)
- Potential near-zero lifecycle greenhouse gas emissions using green methanol

Available Today

- Commercially proven engine technology
- Increasing number of methanol-fueled vessels entering service
- Expanding global bunkering infrastructure
- Supported by International Quality and Testing Standards: ISO6583:2024

Simplified Fuel Handling

- Liquid at ambient temperature and pressure
- Easier storage and handling versus cryogenic fuels
- Good combustion characteristics
- Retrofit opportunities for existing vessels
- Can leverage much of the existing fuel supply chain infrastructure

Green Methanol: Unlock Greater Sustainability

Sustainable methanol can be produced from a range of feedstocks:

- Bio-methanol: Produced from sustainable biomass
- e-Methanol: Produced from renewable electricity and captured carbon.
- Blue Methanol: Produced with carbon capture technologies



Such sustainable methanol sources offer shipping a credible route towards lower lifecycle emissions and compliance with environmental regulations.

Supporting Compliance and Future Readiness

Methanol can help shipowners and operators address:

- IMO Decarbonisation objectives
- Fuel EU Maritime requirements
- Emission Control Area (ECA) regulations
- Corporate sustainability commitments



VPS: Your Methanol Partner

VPS has recently opened its 5th fuel testing laboratory. This new facility is located in Shanghai. As China is looking to take the lead with regard to the production of methanol for marine applications, our new facility adds to the VPS resources capable of testing methanol.

With dedicated laboratory investment and trained specialists, VPS provide expert methanol quality testing to the ISO6583:2024 and IMPCA standards.

Talk to VPS about methanol bunker quantity surveying, sampling and testing: sales@vpsveritas.com

Safety & Fuel Quality Matter

Successful methanol operations depend upon:

- Robust fuel quality management
- Appropriate sampling and testing procedures
- Crew training and safety protocols
- Compliance with methanol fuel standards

Ensuring fuel quality and operational readiness is essential for safe, efficient and reliable vessel performance. Methanol as a marine fuel emphasizes the importance of quality control, safe handling and adherence to methanol-specific sampling and testing procedures.