



The European Fuel Oxygenates Association

What are Bio-Ethers?

What are Bio-Ethers?

The best route to biofuels is bio-ethers because...

- They reduce CO₂ emissions
- They improve air quality
- They are good for the environment



Fuel ethers are blending components added to petrol to make it burn cleanly and completely.

They enhance engine performance, whilst reducing engine wear and toxic exhaust emissions. Greatly reducing the amount of ground-level ozone, they contribute to the quality of the air we breathe.

Fuel ethers were first introduced in the 1970's to replace lead, a toxic compound which has since then been banned in Europe. New environmental regulations are leading many refiners to select fuel ethers as their preferred option when looking at cleaner transportation fuels.

They are the existing low cost solution, fully compatible with fuel distribution and vehicle engine systems. The best known and widely used fuel ethers are MTBE (methyl-tertiary-butyl-ether) and ETBE (ethyl-tertiary-butyl-ether).

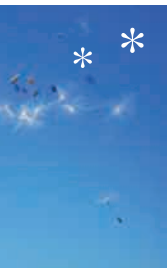
Extensive information available on
www.efoa.org



Fuel ethers are made from renewable and alternative sources of energy. The future calls for a more extensive use of biofuels as they help to contribute to climate change commitments and environmentally friendly security of energy supply, as well as promote renewable energy sources.

The bio-ether bio-ETBE is a derivative from bioethanol, which is obtained from the distillation of wheat and/or sugar beet. It is by far the biofuel of choice today in Europe, with over three quarters of all bioethanol being used as bio-ETBE.

Since 1985, EFOA -European Fuel Oxygenates Association- has been the voice of the fuel ether industry in Europe. Today EFOA is recognised by the European institutions as a stakeholder on fuel quality and biofuels issues. It is very active in a wide variety of technical and government initiatives to demonstrate that bio-ETBE makes it easy to blend ethanol into petrol.





WHO WE ARE ?

- Founded in 1985, EFOA is a non-profit, technical organization.
- Its role is to represent the European Fuel Ether industry in a wide variety of technical and government initiatives.
- EFOA is recognized by the European Commission as a stakeholder on fuel quality and biofuels.
- We have 11 members representing the majority of the European ether capacity: Ecofuel/ENI Group (IT), Evonik Oxeno (DE), Hellenic Petroleum (GR), Lyondell Basell Industries (NL), Lukoil (BG), Neste Oil (FI), PKN Orlen (PL), Repsol YPF (ES), Sabc (NL), Saras (IT), Total (FR).

OUR MISSION

- EFOA, the Association of European Fuel Oxygenates Producers, is dedicated to the responsible usage and the promotion of chemical ether fuel oxygenates as components of gasoline.
- EFOA Supports and disseminates state-of-the art scientific research on the benefits and impact of ethers on health and the environment.
- EFOA believes in the application of sound scientific principles and actively promotes constructive co-operation with all stakeholders; industry, NGOs, etc.



The European Fuel Oxygenates Association

**EFOA is the association that represents
European producers of fuel ethers.**

Av. E. Van Nieuwenhuysse, 4 - Bte 2
1160 Brussels - Belgium
efoa@efoa.org - www.efoa.org



*EFOA is a sector group of Cefic,
the European Chemical Industry Council*