

Dimethyl Ether

May 4, 2026 • vajiramandravi.com



Dimethyl Ether Latest News

Oil and Natural Gas Corporation (ONGC), along with CSIR-National Chemical Laboratory (CSIR-NCL), is set to launch an industrial pilot project to produce dimethyl ether (DME) in Pune.

About Dimethyl Ether

- It is a **synthetically produced alternative to diesel** for use in specially designed compression ignition diesel engines.

Properties of Dimethyl Ether

- **High Cetane Number:** It has a very **high cetane number**, which is a measure of the **fuel's ignitability** in compression ignition engines.
- Under normal atmospheric conditions, DME is a colorless gas.
- **Clean Burning:** It **burns cleaner**, emitting **minimal amounts of soot, nitrogen oxides (NO_x)**, sulfur oxides (SO_x), and particulate matter.

- **Thermal efficiency:** It **exhibits thermal efficiency** that is comparable to traditional fuels, making it a viable substitute
- **Alternate Fuel:** It can be a **viable alternative fuel** and engine technology to adapt to conventional diesel engines used in India's economy's agricultural and transport sectors.

Application of Dimethyl Ether

- It is used extensively in the **chemical industry** and as an aerosol propellant.
- It is used in chemical industries and also to **produce dyes and plastics.**

Source: NIE

Source: <https://vajiramandravi.com/current-affairs/dimethyl-ether-dme/>

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