

Diethyl ether

REACH Registration Number: 01-2119535785-29-0001

Trade Name: Diethyl ether
Chemical Name: Diethyl ether
CAS: 60-29-7
EC: 200-467-2
Synonyms: Ether|Ethyl ether|Ethoxyethane|1,1'-Oxydiethane
Molecular Formula: $C_4H_{10}O$
Molecular Weight: 74.122
Characteristics: Mobile, clear, colorless, highly volatile liquid (at 20 °C) with characteristic odor.
Completely miscible with organic solvents, partially miscible with water.

Qualitative values

Density (at 20 °C)	713.5–714.5 kg/m ³
Peroxides (as H ₂ O ₂)	max. 0.00015 % wt.
Acidity (as CH ₃ COOH)	max. 0.0002 % wt.
Aldehydes	only a slight opalescence on the water surface within 1 min.
Water	max. 0.15 % wt.
Non-volatile matter	max. 0.001 % wt.
Ethanol	max. 0.10 % wt.
Methanol	max. 0.02 % wt.

Storage

Store in a tightly closed container.

Keep away from sources of ignition and heat.

Warehouse facilities must be equipped with ventilation system of sufficient capacity.

Protect from light.

Protect from air.

Take precautionary measures against static discharges.