

## Methanol (Methyl Hydrate)

### Chemical Formula CH<sub>3</sub>OH

#### DESCRIPTION

Methanol (methyl hydrate) is a colourless liquid with an alcohol-like odour. It is one of the basic chemicals of the organic chemical industry. A high standard of purity is required and Nemco supplies methanol with purity consistently exceeding 99.85%. Methanol is completely soluble in alcohol, water and ether, and is generally used for industrial manufacturing purposes and has a variety of different uses. This product can be used as a primer fuel for certain lamps, lanterns, heaters, and blow torches. Methanol can also be used as a thinner for certain paint products and to clean painting equipment. It is also used to prevent frozen gas lines in cars, trucks, and heavy equipment during the winter months, as well as blending windshield washer fluids and an additive in fuel treatment products.

#### Safety information

- Methanol is a flammable product. Always follow safe handling procedures and store away from sources of ignition.
- Methanol can be toxic if consumed. Never drink and always keep away from children.
- More detail about handling, storage, exposure control and personal protection please refer to the Material Safety Data sheet (MSDS) of pure methanol.

#### Typical Characteristics - Methanol

Test	Result
Purity (% w/w)	99.85 min
Water (% w/w)	0.1% max
Specific gravity (20/20°C)	0.791-0.793 (typical)
Acidity (acetic acid, % wt)	0.001 max
Non-volatile residues (% wt)	0.001 max
Permanganate (minutes at 150°C)	60 min
Boiling point (at 760 mmHg °C)	64.6
Coefficient of cubical expansion per °F per °C	0.666 x 10 <sup>-3</sup> 1.199 x 10 <sup>-3</sup>
Melting point (°C)	-97.8
Heat of vaporization (cal/g)	262.8
Refractive index	1.3290
Vapour density (air=1)	1.11
Vapour pressure (at 200°C, mmHg)	96.0

*Physical characteristics shown in the table are typical and may vary slightly.*