

General

Pionier 4281 is a medical paraffinic mineral White Oil containing aromates in trace elements. It is colourless, odourless, and clear.

Safety instructions

> Swallowing and inhalation:

Can be fatal after swallowing and intrusion into respiratory system. When swallowing the product may be absorbed in the lungs due to its low viscosity and lead within a short time to develop serious lung damage. (The patient must be monitored medically for 48 h.) Immediately contact local or national **Poison Information Center** (Germany: +49-551-19240) or doctor! **Don't effect vomiting!**

- > For further information refer to the Material Safety Data Sheet.
- > Disposal according to governmental regulations.
- > No dangerous good in terms of transport regulations.

Application

Pionier 4281 can be used with RITTER Drum-type Gas Meters made out of PVC, PVDF and Stainless Steel.

Incompatible substances

- > Not suitable for measurements with oxygen.
- > Contact with strong oxidising agents (e.g. peroxides, chromates) can lead to fire hazard.
- > Mixing with nitrates or other oxidising agents (e.g. chlorates, perchlorates, liquid oxygen) can create an explosive compound.

Advantages

- > Use under 0°C.
- > Less evaporation than water due to its lower vapour pressure.
- > Greater stability of the Packing Fluid level.
- > Improvement in the repeatability of measurement results.
- > Reduction in the required frequency of Packing Fluid level monitoring.
- > The gas remains dry.
- > In general, a lower chemical reactivity with water.

Solubility of gases

No data available from manufacturer.

Properties

Viscosity:	20 °C	6.5 cSt (=mm²/sec)
	40 °C	4.0 cSt
Density:	15 °C	0.81 g/ml
Vapour pressure:	20 °C	< 0.1 mbar
Pour point:		-9 ℃
Flashpoint:		115 °C
Thermal expansion coefficient:		0.0007 K ⁻¹
Appearance:		Colourless, odourless, and clear

V 1.0 / Rev. 2020-01-10 / Subject to alterations.

The most recent version of this data-sheet can be found at https://www.ritter.de/en/data-sheet/pionier-4281/

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