



# **SPEED UP YOUR KARL FISCHER TITRATION WITH HYDRANAL- METHANOL RAPID**



**Honeywell**

## Speed, duration and therefore accuracy of the volumetric Karl Fischer titration can be strongly influenced by the medium used in the titration vessel.

Dry methanol is the most commonly used medium in KF titration. Since pure methanol is an unbuffered solvent, the pre-titration in this medium takes between 1 to 2 minutes, even if a titration vessel is in good condition. The subsequent titration of an average amount of water takes 3 to 4 minutes. By using Hydranal™-Methanol Rapid, you will see a clear improvement in speed resulting in higher accuracy of your results.

Short titration times also help to minimize negative effects of humidity surrounding the titration vessel, even if these are already considered by the so-called drift correction. Accelerators used in Hydranal-Methanol Rapid enable an optimized Karl Fischer titration (Figure 1). The duration is halved and the end point is quickly obtained, without compromising its accuracy. Hydranal-Methanol Rapid is recommended for use with Hydranal-Composite. Although this one-component titrating agent is already buffered to an optimal Karl Fischer pH range, the combination with an accelerated medium in the titration vessel helps to optimize the entire performance.

In case a less toxic medium is preferred, Hydranal-CompoSolver E, ethanol based medium, provides the same optimized performance compared to Hydranal-Methanol Rapid.

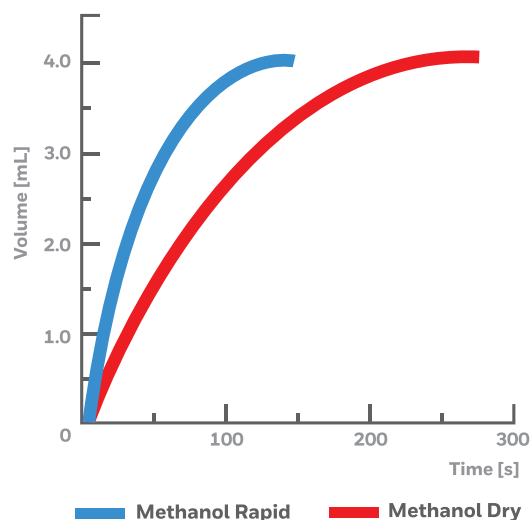


Figure 1. Performance comparison between Hydranal-Methanol Rapid and Hydranal-Methanol Dry. Titration of 20 mg of water.

**Hydranal-Methanol Rapid provides the perfect formulation, which will give you:**

- Short titration times
- Rapid and stable end points
- Optimized overall performance
- Highest accuracy of the analysis

PRODUCT NUMBER	PRODUCT NAME	DESCRIPTION	PACKAGING
37817	HYDRANAL- Methanol Rapid	Medium for accelerated volumetric one-component Karl Fischer titration	1 L; 2.5 L
34734	HYDRANAL-CompoSolver E	Medium for volumetric one-component Karl Fischer titration (ethanol-based)	1 L; 2.5 L
<b>to be used with following one-component titrating agents:</b>			
34805	HYDRANAL-Composite 5	Titration agent for volumetric one-component Karl Fischer titration (methanol free), titer ~5 mg/mL	500 mL; 1L; 2.5 L
34806	HYDRANAL-Composite 2	Titration agent for volumetric one-component Karl Fischer titration (methanol free), titer ~2 mg/mL	500 mL; 1L; 2.5 L
34827	HYDRANAL-Composite 1	Titration agent for volumetric one-component Karl Fischer titration (methanol free), titer ~1 mg/mL	500 mL; 1L

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3090 | AM | Rev 2 | March 2020

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