



SAFER WATER DETERMINATION

NEW! FREE OF IMIDAZOLE (FI) HYDRANAL REAGENTS



We are committed to provide the next level of safety and offer reagents free from CMR (carcinogenic, mutagenic and reprotoxic) substances.

In 1979, Eugen Scholz and Helga Hoffmann invented Hydranal™ reagents by replacing noxious pyridine, originally used as a base for Karl Fischer (KF) titration, with odorless imidazole. Next in 1998, Hydranal introduced ethanol-based reagents (Hydranal E-types) for those looking to move away from toxic methanol. Now, we are committed to provide the next level of safety and offer reagents free from CMR (carcinogenic, mutagenic and reprotoxic) substances.

In 2015, the European Commission classified imidazole as a CMR substance and added H360D statement (“may damage the unborn child”). The initial trigger for the evaluation was the usage of imidazole in the food industry and therefore an intended oral intake. Although KF reagents contain imidazole only in dissolved and diluted form, are always handled in closed systems in small analytical amounts, and direct contact with imidazole is unlikely, professional users of CMR substances must carry out a risk assessment considering the whole work process.

So far, alternatives to imidazole have adversely impacted the performance of KF reagents and users have had limited options to move away from any potential CMR risk. **Now, after dedicated research, the Hydranal Center of Excellence has developed new reagents that are free of imidazole and do not compromise on performance** (see Fig. 1).

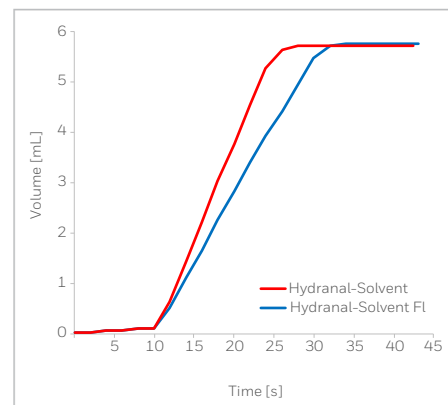


Fig. 1. Performance comparison between Hydranal-Solvent FI (free of imidazole) and Hydranal-Solvent (with imidazole). Titration of 30 mg of water.

New Hydranal FI-type reagents:

- Free of imidazole
- No CMR classification
- Same high performance
- Same high accuracy

Your safety is the highest priority for Hydranal, without comprising on results.

FISHER SCIENTIFIC CAT. NO.	HONEYWELL CAT. NO.	PRODUCT NAME	DESCRIPTION
16802370	34432 - 1L	HYDRANAL NEXTGEN Solvent FI	Medium for volumetric two-component Karl Fischer titration (methanol-based), free of imidazole (free of CMR substances)
16812370	34432 - 6X1L		
16882360	34431 - 1L	HYDRANAL NEXTGEN Solvent E-FI	Medium for volumetric two-component Karl Fischer titration (ethanol-based), free of imidazole (free of CMR substances)
16892360	34431 - 6X1L		
16822370	34433 - 500ML	HYDRANAL NEXTGEN Coulomat AG-FI	Analyte suitable for cells with and without diaphragm, free of imidazole (free of CMR substances)
16832370	34433- 6X500ML		



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