



## The Key Ingredient for Quality Metrohm Food Analyzers

### Peroxide-Iodine Value Analyzer

Verifying oxidation states and unsaturation levels is simple using the Metrohm Peroxide-Iodine Value Analyzer. This analyzer combines operating convenience with high-accuracy measurements to deliver a system configured to your preferences that makes training new users quick and easy. The Metrohm Peroxide-Iodine Value Analyzer can be controlled either with touch control or software for straightforward integration into your workflow.

**Order Number: 28880110**

The Metrohm Peroxide - Iodine Value Analyzer is configured with a built-in buret drive, 20 mL buret, magnetic stirrer and your choice of controller. Requires Pt Titrode, 60431100.

[food.metrohmusa.com](http://food.metrohmusa.com)

 **Metrohm**

## Recipe for Peroxide Value in Edible Oils

### Ingredients

888 Peroxide Value Analyzer..... 28880110  
Pt Titrode..... 60431100  
Titrant .....  $c(\text{Na}_2\text{S}_2\text{O}_3) = 0.001 \text{ mol/L}$   
Auxiliary solution ..... Saturated solution of KI:  
Solvent mixture ..... Glacial acetic acid/1-decanol or  
chloroform (3:2)

### Directions

Prepare your sample by adding 20 mL of solvent mixture and 0.2 mL of auxiliary solution to 5-10 g of sample. Let mixture rest in dark for 1 minute. Next, add 80 mL of DI water. Using the settings below, titrate mixture with sodium thiosulfate until the first endpoint.

### Settings

Mode..... DET U  
Signal drift..... 20 mV/min  
Min. waiting time ..... 10 s  
Max. waiting time..... 72 s  
Meas. point. density ..... 4  
Min. increment ..... 10  $\mu\text{L}$   
Max. increment..... 200  $\mu\text{L}$   
EP criterion ..... 20  
EP recognition..... greatest

### Typical Yield

Sample (n=10)	Mean PV, meq/kg	Standard Deviation
Sunflower oil	8.162	1.52
Olive oil	15.4647	1.35