

# Bromine Titrator

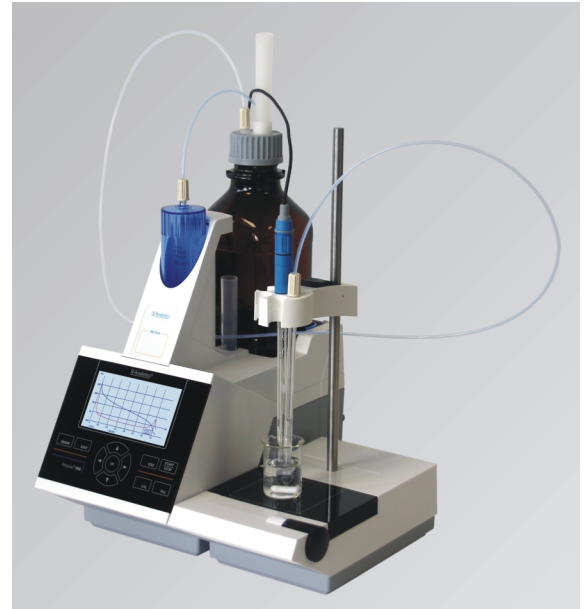
## Bromine Index or Bromine Number of hydrocarbons

### Product description

The value of Bromine Index or Bromine Number expresses the trace amount of unsaturated constituents of hydrocarbons and oils. It is determined by measuring of consumed bromine for cleavage of double or multiple bounds during the titration. The value are needed for determination of parameters for further processing of petroleum products.

The device is conform to standards **ASTM D 1159, ASTM D 2710 and ASTM D 5776**. The measurement uses a potentiometric titration method in an anhydrous medium. The titration with titrant starts, once the sample is dosed into the reagent. The user has to enter the sample weight into the menu.

The titration is performed automatically until the endpoint indication of measurement. At the end of the measurement, results are shown in mg Br<sub>2</sub>/100 g (Bromine Index) or g Br<sub>2</sub>/100 g (Bromine Number).



Volumetric Bromine Titrator

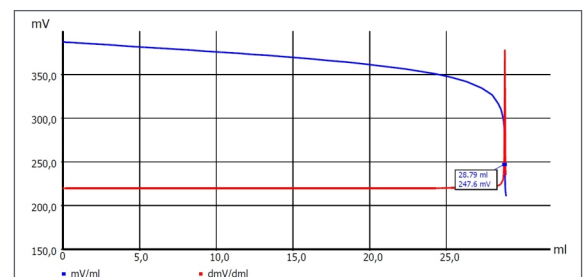
### Applications

The device is suitable for analysis of

- petroleum distillates
- gasoline (including leaded, unleaded, oxygenated fuels)
- kerosine
- distillates in the gas oil range
- commercial propylene trimer and tetramer
- butene dimer
- mixed nonenes, octenes, heptenes
- olefinfree hydrocarbons or mixtures

### Advantages

- Complete measuring system for the determination of Bromine Index or Bromine Number
- Fully-automatic volumetric titration
- Precise adjustment of the titration parameters by control algorithms
- Preset measurement method allows an immediate start
- The result output can be adjusted to your needs by using a formula generator



Titration graph of oil sample

## Details

The Bromine Titrator consists of

- an automatic volumetric titrator with potentiometric indication
- a titration vessel with stirrer unit

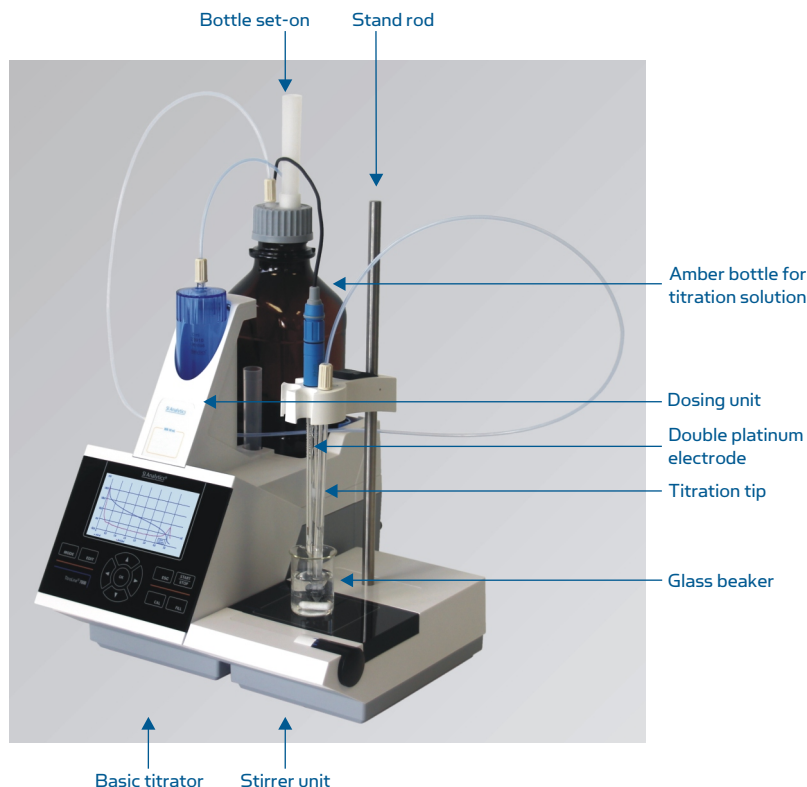
The determination of Bromine Index or Bromine Number is based on

- a potentiometric titration in an anhydrous medium
- a precise indication by a double platinum electrode, which is stable over long periods

The standard solutions and the samples must be titrated at 0 - 5 °C.

Steps of the analysis are

1. Determination of the blank value
2. Standardization of the titration solution
3. Titration of sample



## Specifications

Measurement method:	Volumetric titration
Types of result:	mg Br <sub>2</sub> /100 g (Bromine Index) or g Br <sub>2</sub> /100 g (Bromine Number) or using the formula generator
Measuring range:	0 - 200 (Bromine Number)
Resolution of the display:	0.01
Power supply:	External plug-in power supply 100 - 240 V, 50/60 Hz
Power input:	30 VA
Stirrer connection:	12 V DC out, 500 mA
Dimensions:	30 x 45 x 30 cm (W x H x D), height with exchange unit
Weight:	Approx. 3.5 kg (with exchange unit and empty reagent bottle)

We are here for you



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