RVC-application A-1001

Catchwords: KW-index; water-analytics; petroleum ether

Accumulation of petroleum ether within the regulation of the hydrocarbon-index (oil content-regulations for water) following DIN EN ISO 9377-2

Application:

Accumulation of petroleum ether, after the extraction of the organic parts out of the water with petroleum ether, to circa 1 ml to the following GC-analytics

Specification:

Model:	RVC 2-18
Vacuum pump:	Membrane pump
Boiling range of the accumulation phase:	Petroleum ether (cp. 40 - 60 °C)
Type of tube:	50 ml – centrifuge beaker
Starting volume of the sample:	40 - 50 ml
Final volume of the sample:	approx. 1 ml
Number of test tube per run:	6
Temperature:	60 °C
Vacuum:	Membrane pump, without pressure sensor
Time:	35 min

Result and notes:

After the program sequence in the RVC is he volume filled up to 1 ml after the accumulation with petroleum ether. It is transferred to autosampler vials to the following GC-analytics. The analytic results don't deviate from each other because of the implementation of the RVC – method instead of a rotating evaporator. One uses a quite high temperature, because there are no small light components. In other cases one should reduce where necessary the temperature.