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Product Name :

Hoffman Voltameter

Product Code :

SLE/CH/59



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Description :

The Hoffman voltameter splits a liquid by electrolysis and collects the gas from each electrode in its own graduated limb. Two borosilicate glass limbs, each marked for 50 cm^3 and closed by a stopcock at the top, rise beside a central reservoir with a funnel-shaped bulb. Platinum electrodes serve for water, carbon electrodes for hydrochloric acid or ammonia. A stand is needed separately.

Hoffman voltameter specifications

Parameter	Detail
Material	Borosilicate glass
Limbs	Two connected limbs, graduated for 50 cm^3, each with a stopcock at the top
Reservoir	Integral reservoir tube with funnel-shaped bulb, capacity 200 cm^3
Electrodes supplied	One pair platinum, one pair carbon
Platinum electrodes	For electrolysis of water
Carbon electrodes	For electrolysis of ammonia or hydrochloric acid
Overall size (height x width)	700 x 85 mm
Stand	Not included
Product code	SLE/CH/59
Minimum order	10 units
Dispatch	Usually within 7 to 10 working days
Manufacturer	ScienceLab (Jain Scientific Equipments Pvt Ltd), Ambala, India

Electrolysis experiments with the Hoffman voltameter

Decomposition of water. Fit the platinum electrodes and clamp the apparatus upright in a Hoffman voltameter stand. Fill it with water made conducting by a little dilute sulfuric acid and connect a low-voltage DC source such as a smoothed power supply . Hydrogen gathers above the negative electrode and oxygen above the positive one, with roughly twice as much hydrogen.

Electrochemical equivalent of hydrogen. Put a digital ammeter in series and hold the current steady with a rheostat. Time the run with a digital stopwatch and read the hydrogen volume at the end. Convert that volume to a mass using the room temperature and pressure, then divide by the charge passed, which is current multiplied by time.

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