

CHLORINE METHOD 4

Using Potassium Iodide

PRINCIPLE OF THE METHOD

The method is based on the reaction of chlorine with potassium iodide in acid solution to liberate iodine. The colour of the iodine is matched against Lovibond permanent colour glass standards.

REAGENTS REQUIRED

1. Lovibond Potassium Iodide Tablets or Chlorine HR Tablets
2. Lovibond Acidifying GP Tablets

THE STANDARD LOVIBOND COMPARATOR DISCS 3/2IOD, 3/2ARP and 3/2APH

Disc Code	Range
3/2APH	2 - 10mg./l. in steps of 1.0 (this disc uses 40mm. cells)
3/2ARP	5 - 50mg./l. in steps of 5.0 omitting 45
3/2IOD	5 - 250mg./l. in steps of 5, 10, 25, 50, 75, 100, 150, 200, 250
3/2AW	5 - 200mg./l. in steps of 5,10,25,50,75,100,125,150,200

METHOD FOR DISCS 3/2IOD, 3/2ARP and 3/2AW

1. Place a 13.5 mm./10ml. moulded cell containing the sample in the left hand compartment of the Comparator.
2. Rinse out another cell with the sample and fill to the 10ml. mark. Add one Potassium Iodide Tablet, crush with a clean stirring rod and mix to dissolve.
3. Add one Acidifying GP Tablet, crush and mix thoroughly until dissolved.
4. Place the cell in the right-hand compartment of the Comparator and holding the Comparator facing North daylight, or a standard source of white light such as the Lovibond Daylight 2000 Unit (not fluorescent lighting); rotate the disc until the nearest colour match is obtained.
5. The figure displayed in the bottom right-hand aperture of the Comparator is the concentration of **Total Chlorine** in mg./l.

METHOD FOR DISC 3/2APH

Use the above procedure, but take a 20ml. sample in a 40mm. cell.

REVISION HISTORY

Date	Change Note	Issue
23/05/02	36/460	2
29/09/04	TCN102	3
18/04/05	CA243	4
06/04/09	JC 141	5