(2-bromo-2-nitropropane-1,3-diol)

This test is suitable for the determination of Bronopol (2-bromo-2-nitropropane-1,3-diol) in industrial water systems. Bronopol is used as a non-oxidising biocide to control bacteria in open systems, often in combination with a second biocide. Bronopol hydrolyses rapidly in alkaline conditions to bromo-nitro ethanol. This test will detect the proportions of both compounds present in the sample.



Using the **20 ml** syringe transfer **10 ml of sample** to the empty sample bottle. Add to this a further **25 ml of tap water** using the same syringe and mix well.



Transfer 10 ml of the diluted sample to the amber glass bottles marked B & T.



Add **0.5 ml (12 drops)** of **B2** to the bottle marked **B**. This is now the **BLANK**.



Add **0.5 ml (12 drops)** of **B1** to the bottle marked **T**. Mix and this is now the **TEST** sample.



WAIT FOR THREE MINUTES



Add **0.5 ml (12 drops)** of **B1** to the bottle marked **B** and mix.

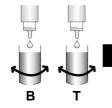
(2-bromo-2-nitropropane-1,3-diol)



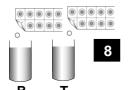
Add **0.5 ml (12 drops)** of **B2** to the bottle marked **T** and mix.

WAIT ONE MINUTE





Add 2 drops of B3 to each bottle B & T and mix.



Add **1** B tablet to each bottle B & T. Crush the tablets and mix to dissolve, starting with the tablet in bottle T. (alternatively add 1 scoop of Reagent B Powder)



10

After **1 minute**, add **15 drops** of reagent **B4** to the bottle marked **T**. Mix and immediately add **1 drop** of reagent **B5**. Mix thoroughly.



Repeat Step 9, on the bottle marked B.

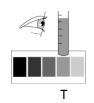
(2-bromo-2-nitropropane-1,3-diol)



Transfer the contents of bottle **B** to one of the plastic cells.



Place over the colour card and move it along the row until a colour match is obtained by looking across the tube and read the figure from the scale. This will give (Reading 1).



Repeat steps 11+12 with the contents of bottle T.
This will give (Reading 2).

Calculation:

Bronopol ppm (mg/l) = Reading 2 - Reading 1

Note:

Reading 2 Is the concentration of bronopol and bromo-nitro

ethanol present in the sample.

Reading 1 Is the concentration of bromo-nitro ethanol present in

the sample.

(2-bromo-2-nitropropane-1,3-diol) Colour Chart

50	
40	
30	(mc
25	Bronopol mg/l (ppm)
20	ol mç
15	douc
10	Bro
5	
0	