

Sulphite (ppm Na₂SO₃)

Reagents and Equipment

Please use reagent pack **RGPK013** – includes:

Sulphite No.1 Tablets – **AT007**

Sulphite Titrant – **A012**

Method

1. Take 20ml of cooled sample. DO NOT FILTER.
2. Add 1 Sulphite No. 1 tablet, crush and swirl to dissolve.
3. Moisten and wipe the tip of the Sulphite Titrant dropper to ensure it is clean and then add it to the sample one drop at a time (counting the number of drops) until the colour changes from white to grey/blue. Note the number of drops.

$$\text{Sulphite (as Na}_2\text{SO}_3) = \text{Number of drops} \times 5\text{ppm}$$

Example

Number of drops = 17.

$$\text{SULPHITE} = 17 \times 5$$

Note - The sample must not be hot since this interferes with the end point. If a sample cooler isn't fitted then the sample should be cooled by taking it in a Pyrex conical flask and running cold water over the outside.

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4. Add one Nitrite No 2 tablet, cap the container and shake until the tablet disinte-grates.
5. Continue adding Nitrite No 2 tablets one at a time in this manner until a pink colour persists for approximately one minute.
6. Note the number of Nitrite No. 2 tablets used and calculate the results from the formula below :

$$\text{Nitrite (Mg/l NaNO}_2) = \text{No of Tablets} \times 140$$

