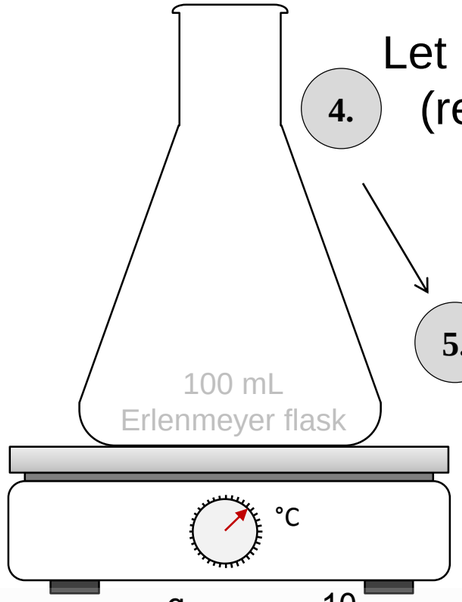
1. X mL sample (X < 40 mL)

2. 0.01·X mL 4.5 M H_2SO_4

3. 4 mL 50 g/L $K_2S_2O_8$

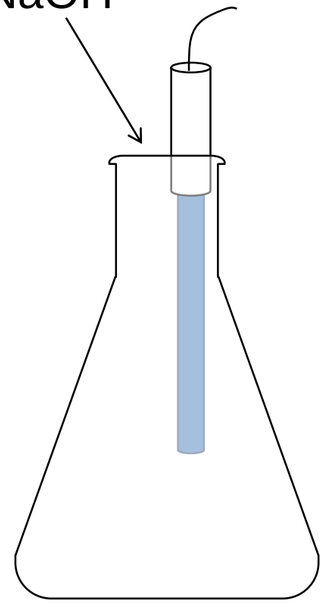
4. Let it boil for 30 min (replenish water regularly)

5. Allow to cool to room temperature



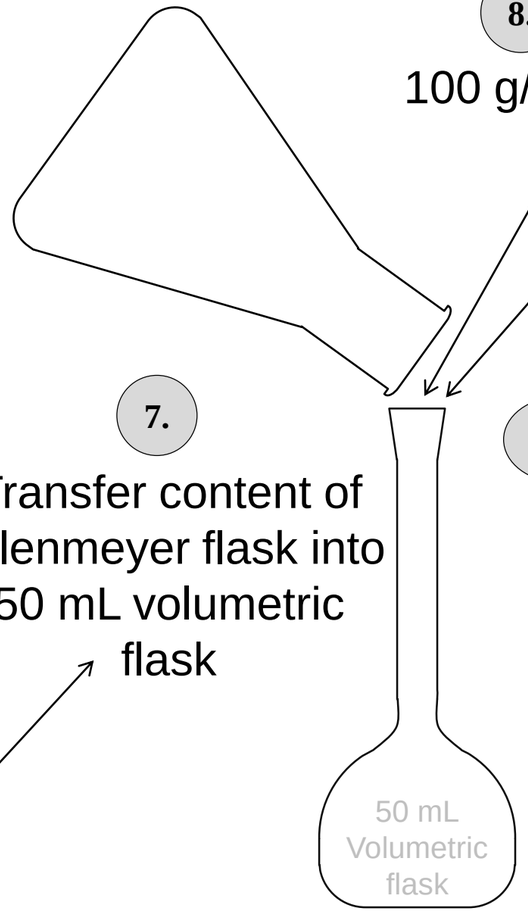
$$COD_{max}\left[\frac{g}{L}\right] \approx \frac{10}{V_{sample}\,[mL]}$$

NaOH



6. Adjust the pH with NaOH: 3 < pH < 10

7. Transfer content of Erlenmeyer flask into 50 mL volumetric flask



8. 1 mL 100 g/L Ascorbic acid

9. 2 mL Molybdate II solution

10. Add bidistilled water to the 50 mL mark, fit with a glass stopper and shake

11. Wait 10–30 min

12. Measure absorbance at 880 nm with photometer