

**Paper Reference(s) 4CH1/1CR 4SD0/1CR
Pearson Edexcel International GCSE (9–1)**

Chemistry

UNIT: 4CH1

Science (Double Award) 4SD0

PAPER: 1CR

Diagram Booklet

In the boxes below, write your name, centre number and candidate number.

Surname					
Other names					
Centre Number					
Candidate Number					

INSTRUCTIONS

There may be spare copies of some diagrams in case you need them.

THIS DIAGRAM BOOKLET MUST BE RETURNED WITH THE QUESTION PAPER AT THE END OF THE EXAMINATION.

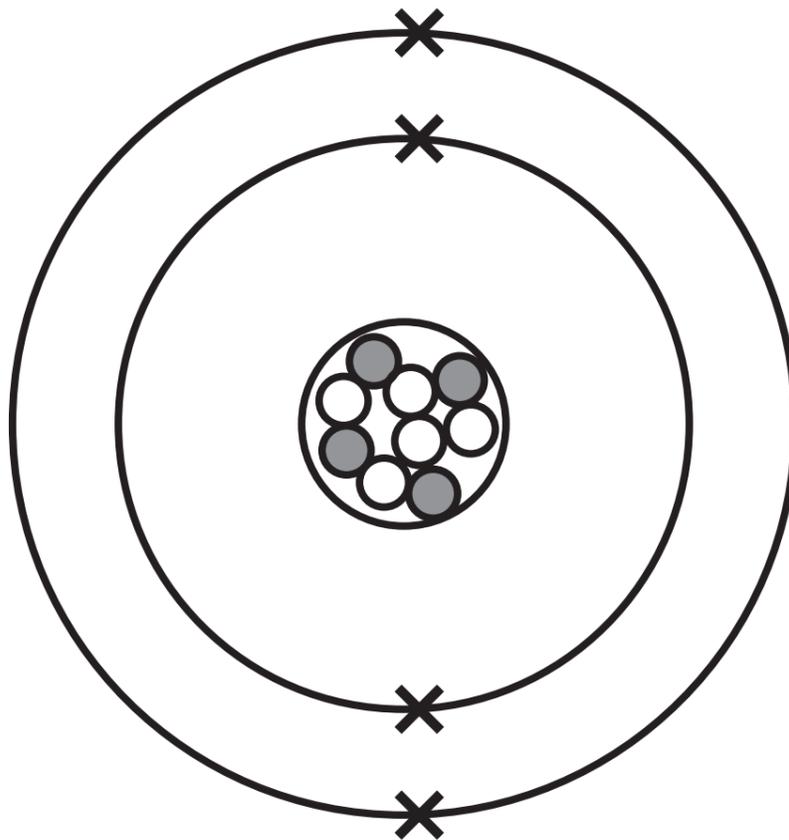
Contents

Page

4	Question 1(a)
5	Question 1(a) (Spare copy)
6	Question 2(a)
7	Question 2(a) (Spare copy)
8	Question 2(b)
9	Question 3
10	Question 4
11	Question 5(a)
12	Question 5(b)
13	Question 6(b)
14	Question 6(b) (Spare copy)
15	Question 6(c)
16	Question 7
17	Question 7(d)(i)
18	Question 7(d)(i) (Spare copy)
19	Question 8(a)
20	Question 9
21	Question 10
22	Question 10(a)
23	Question 10(a) (Spare copy)
24	Question 11(a)
25	Question 11(a)(iii)

Question 1(a)

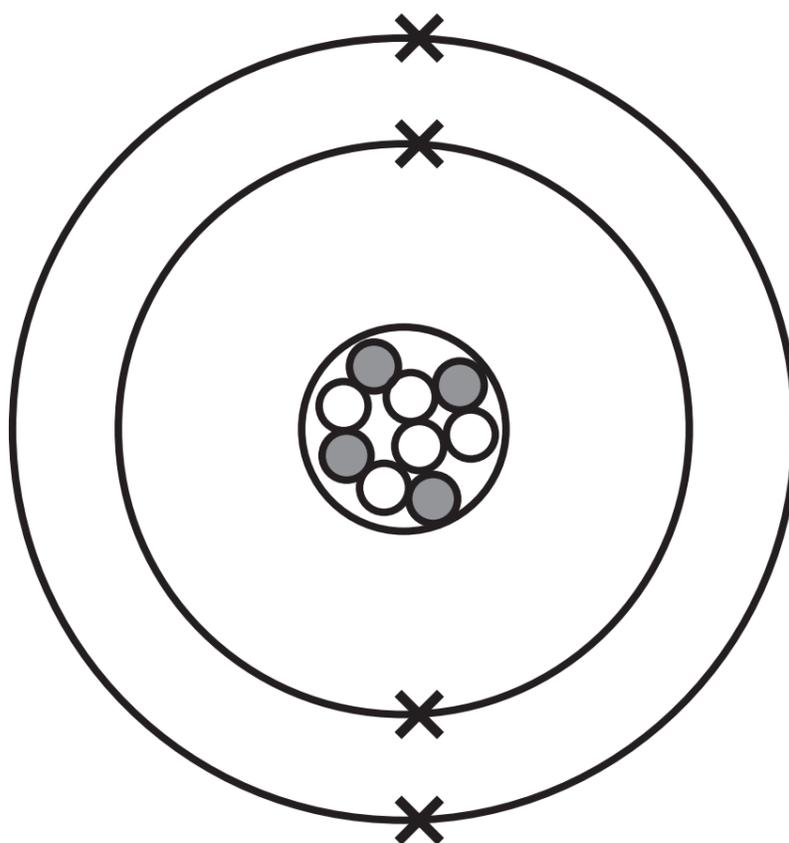
- proton
- neutron
- × electron



Atomic number of this atom	
Mass number of this atom	
Period number of this element	
Number of electrons in the 2+ ion formed from this atom	

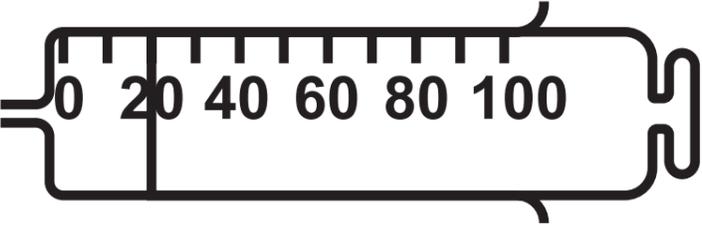
Question 1(a)

- proton
- neutron
- × electron

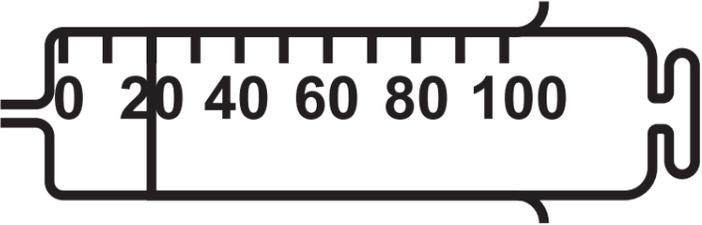


Atomic number of this atom	
Mass number of this atom	
Period number of this element	
Number of electrons in the 2+ ion formed from this atom	

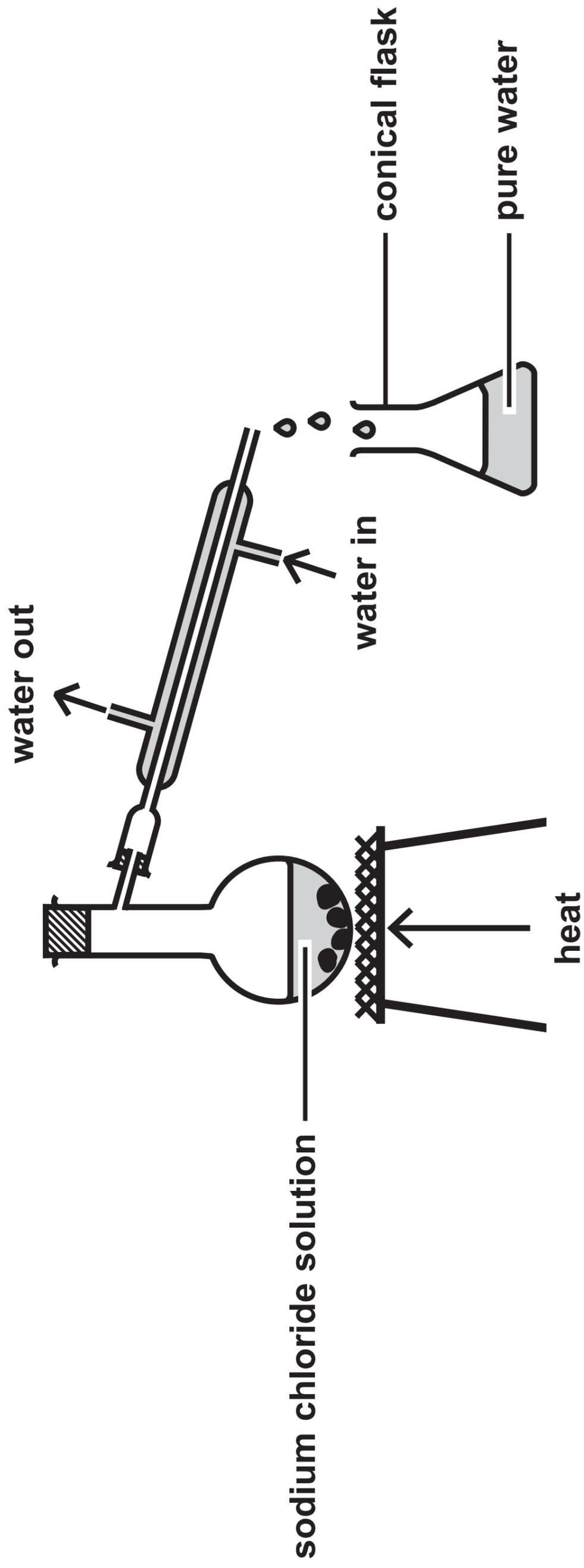
Question 2(a)

Apparatus	Name	Unit
		
		

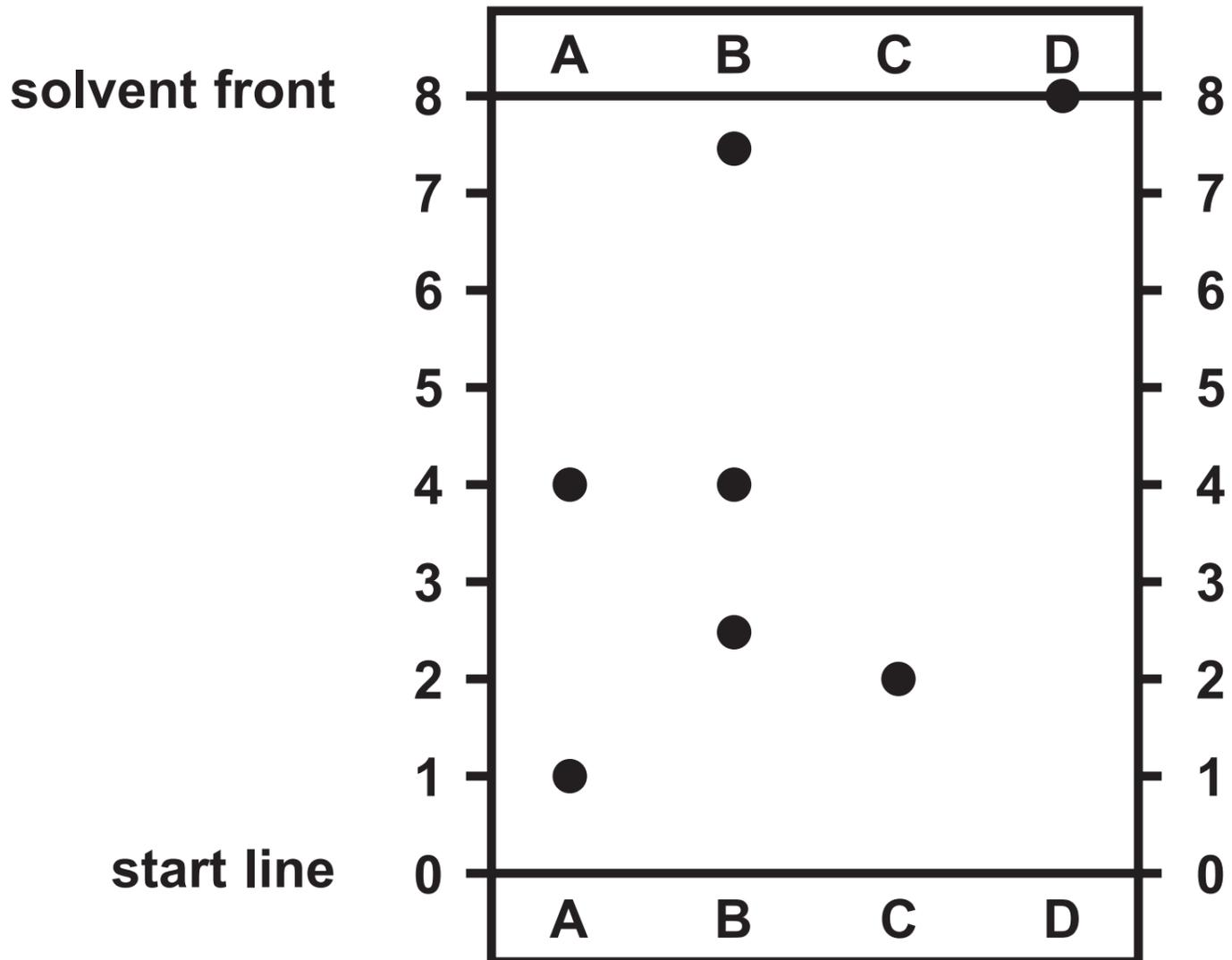
Question 2(a)

Apparatus	Name	Unit
		
		

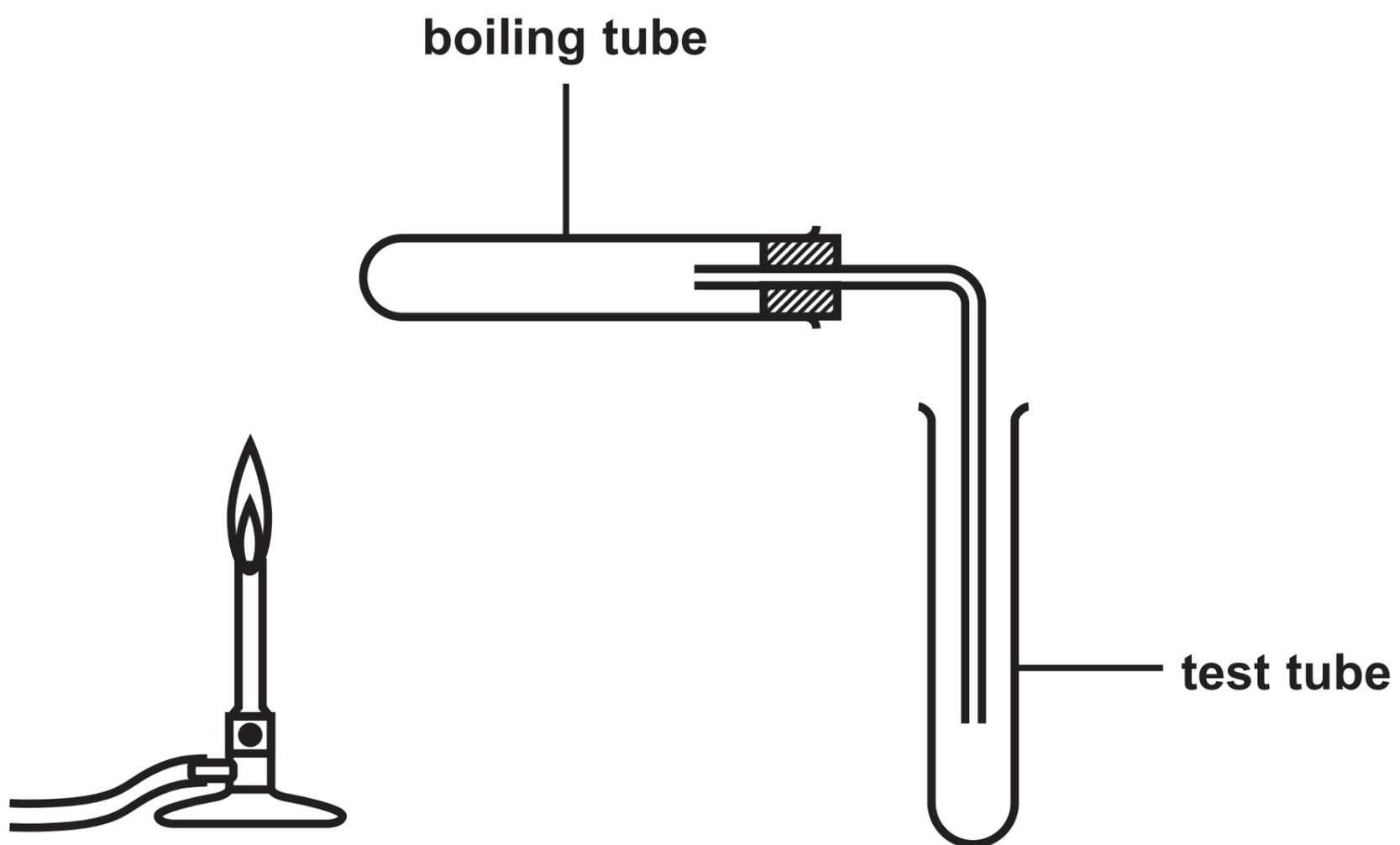
Question 2(b)



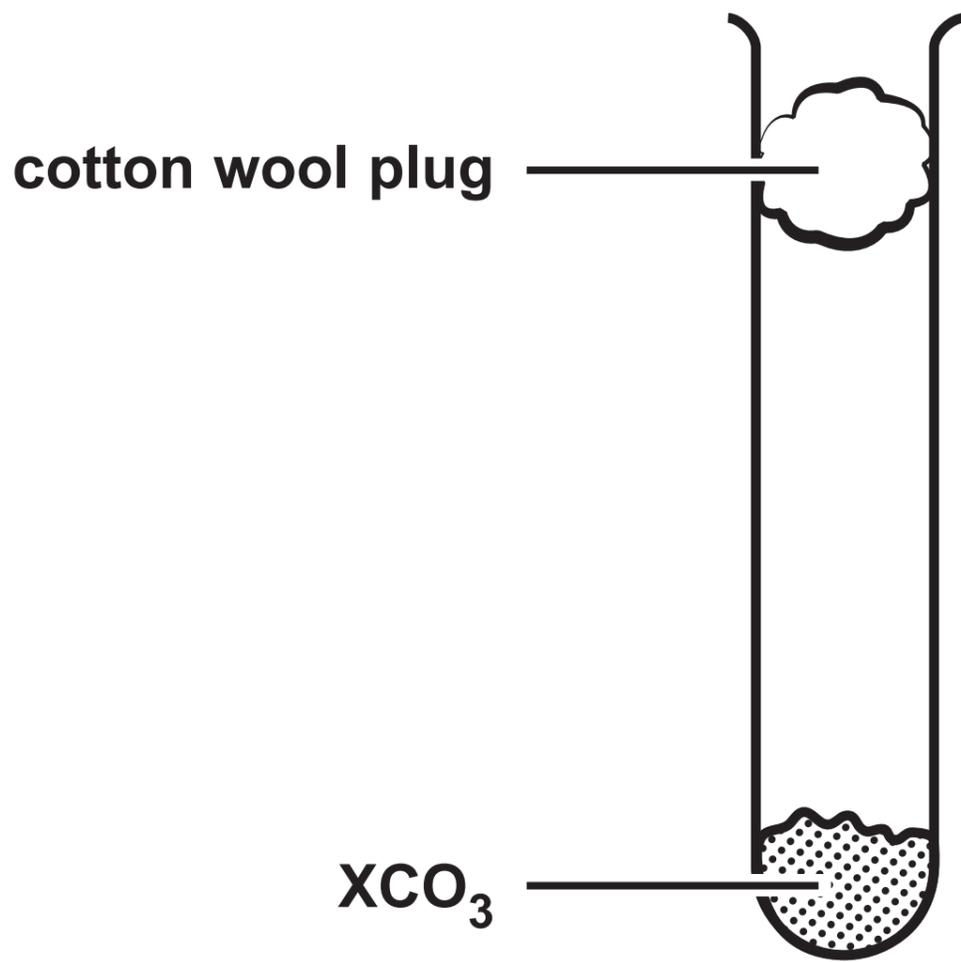
Question 3



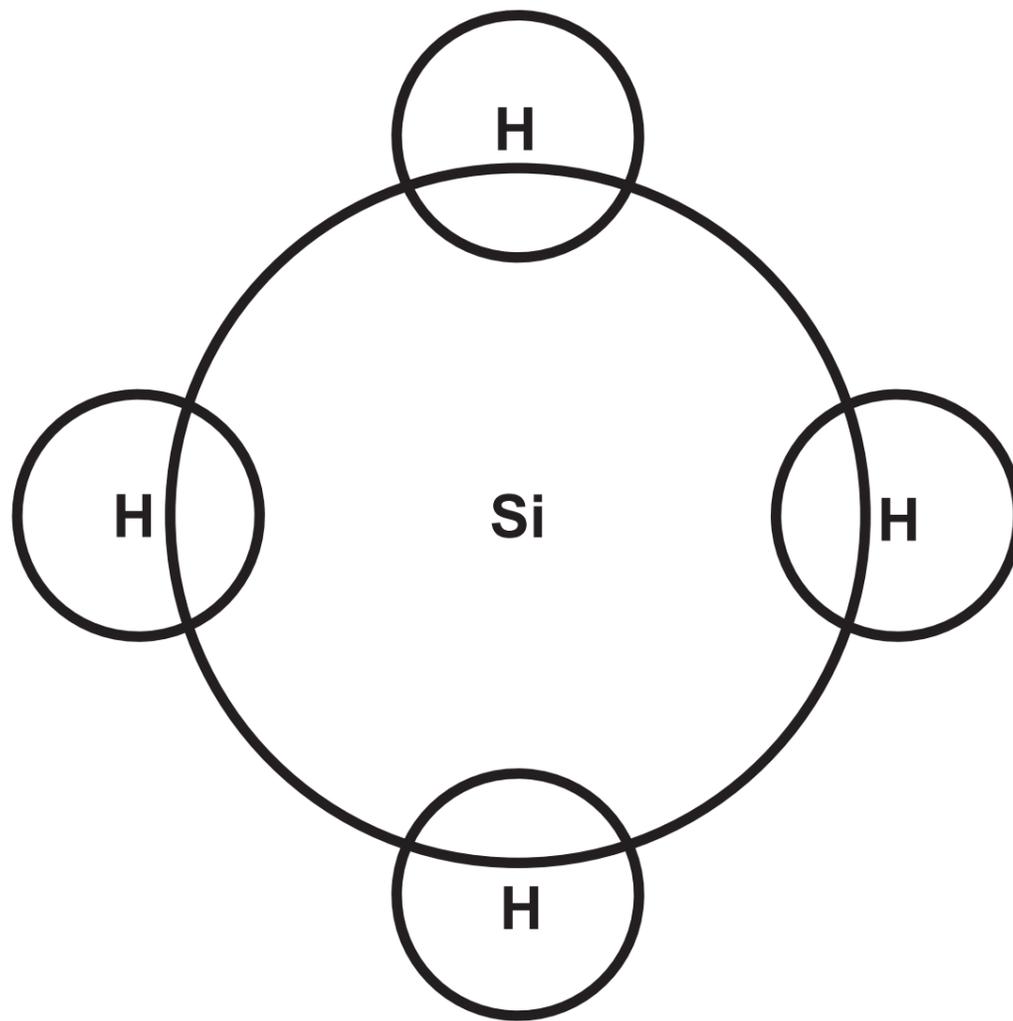
Question 5(a)



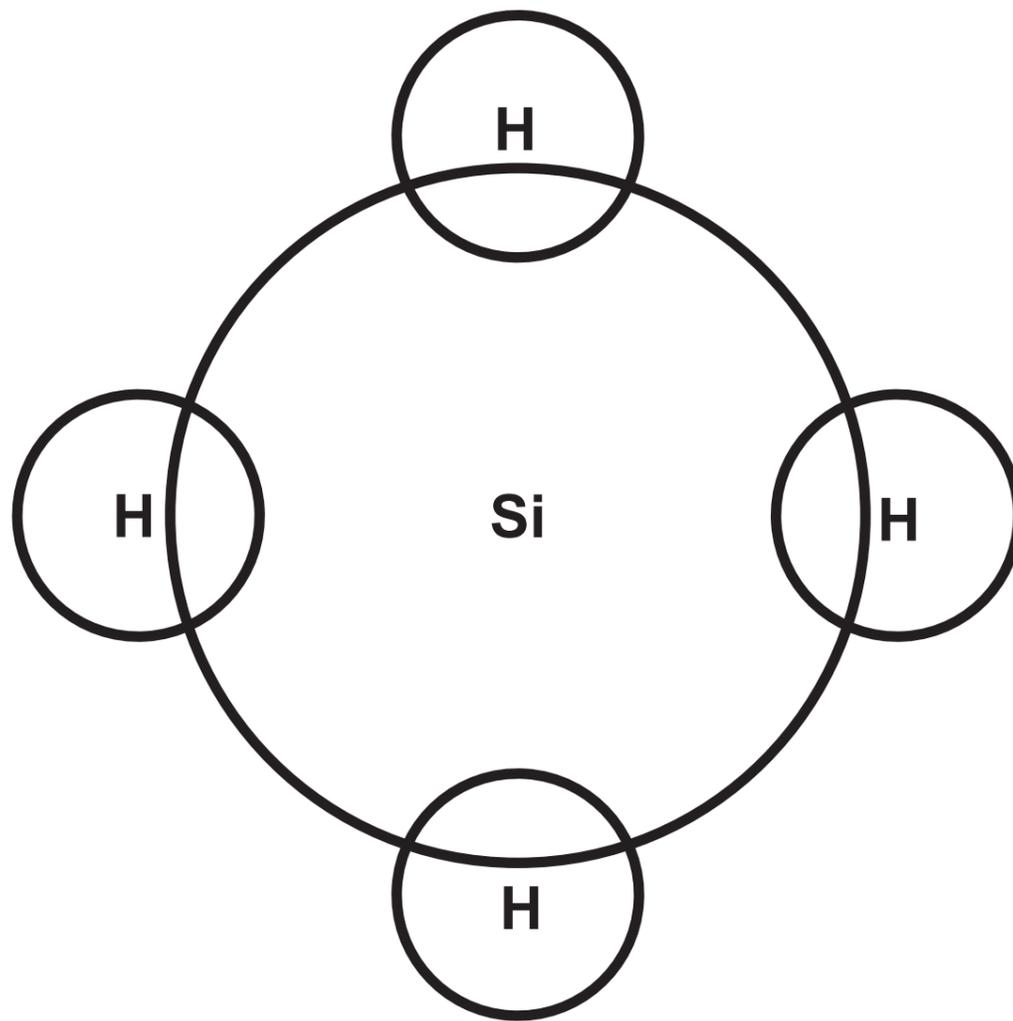
Question 5(b)



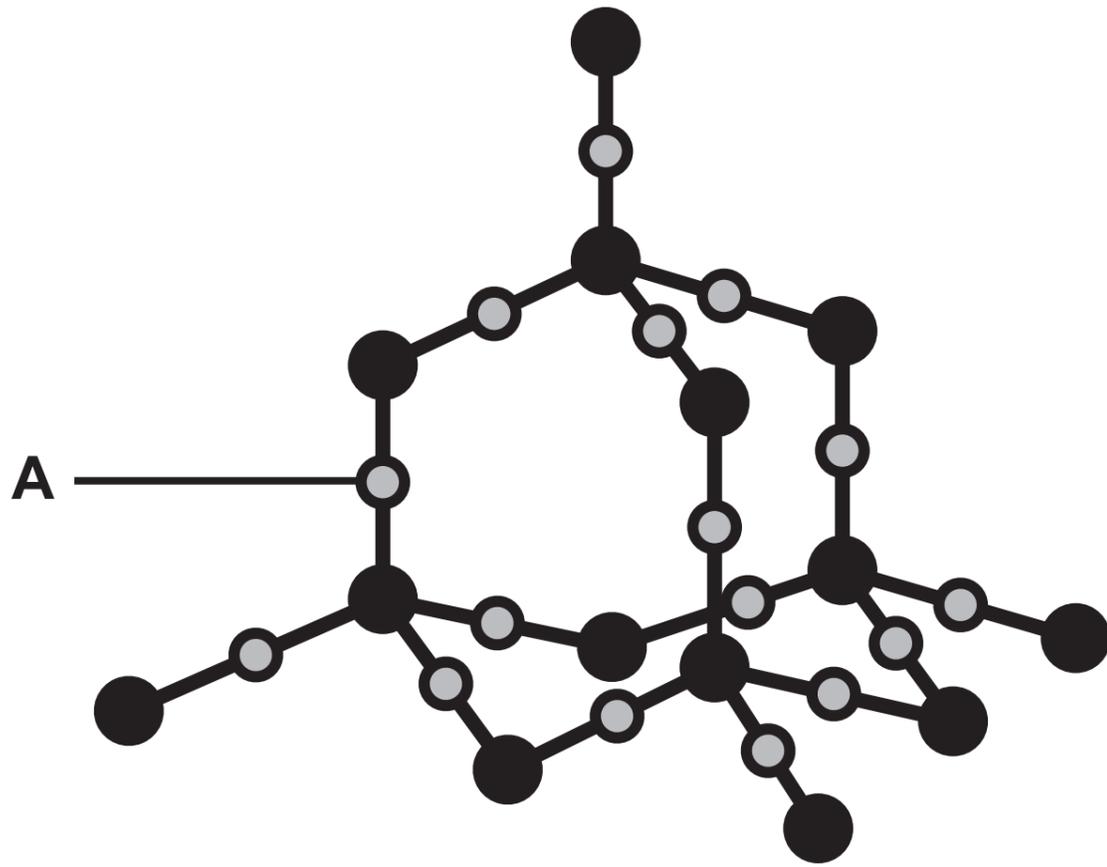
Question 6(b)



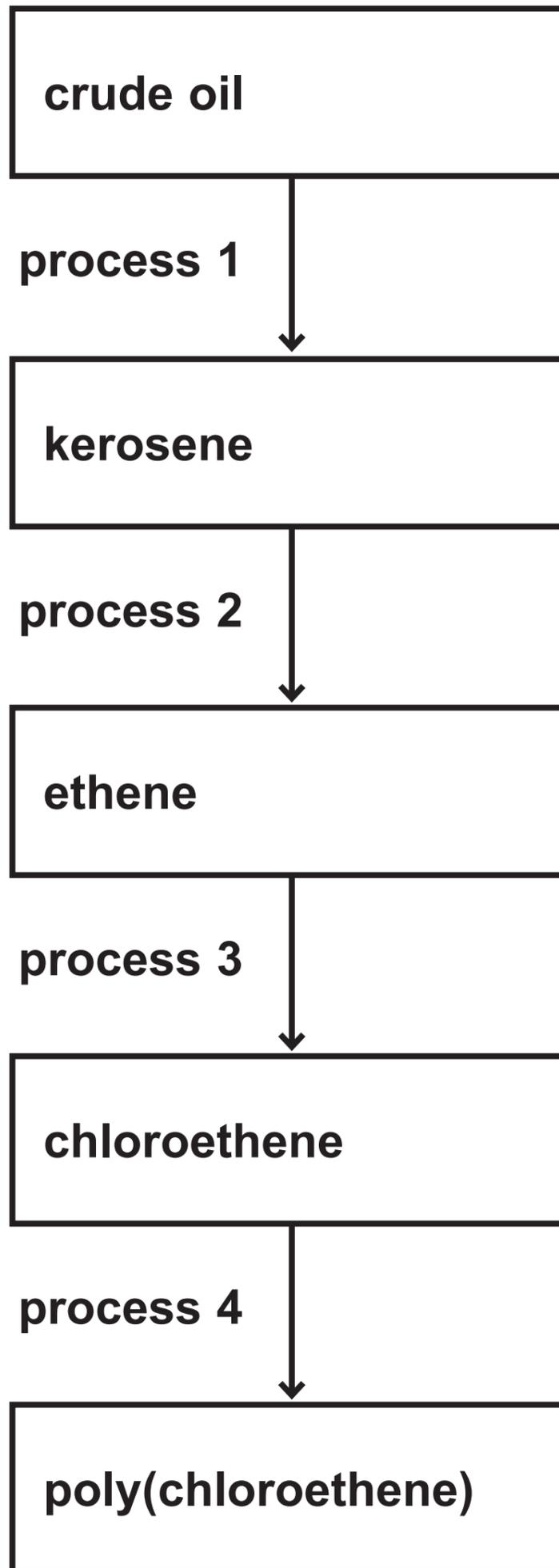
Question 6(b)



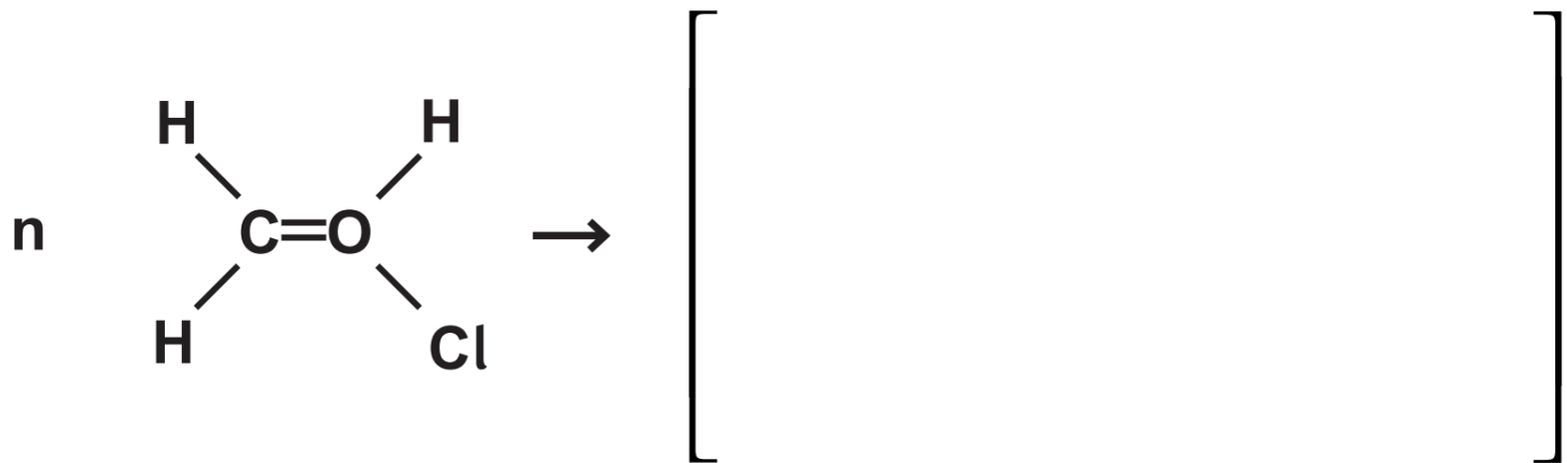
Question 6(c)



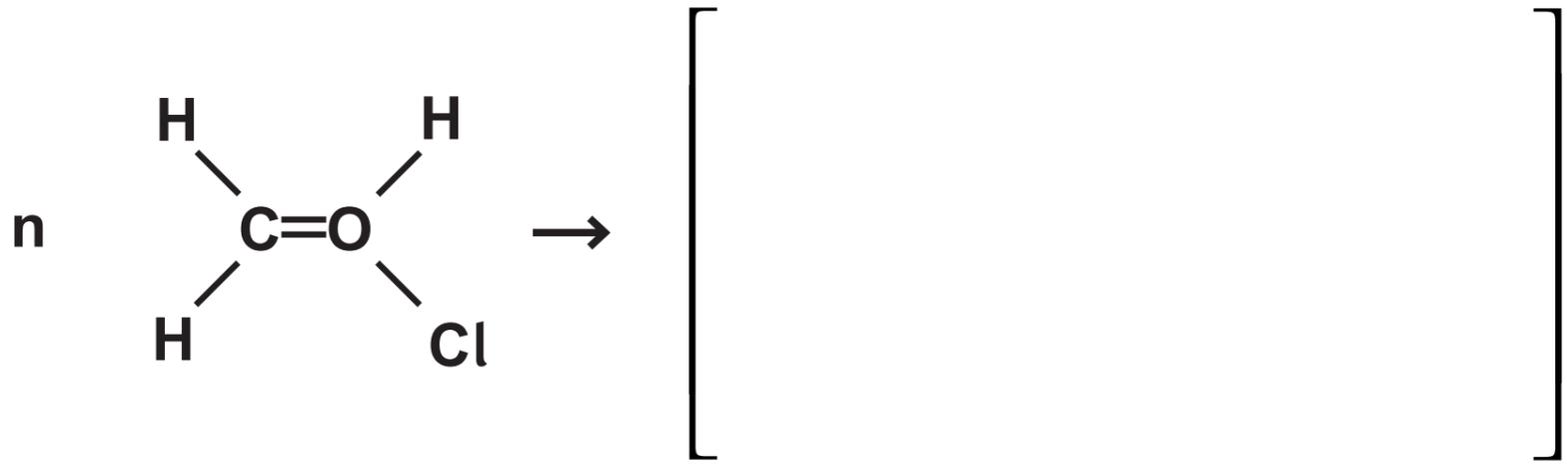
Question 7



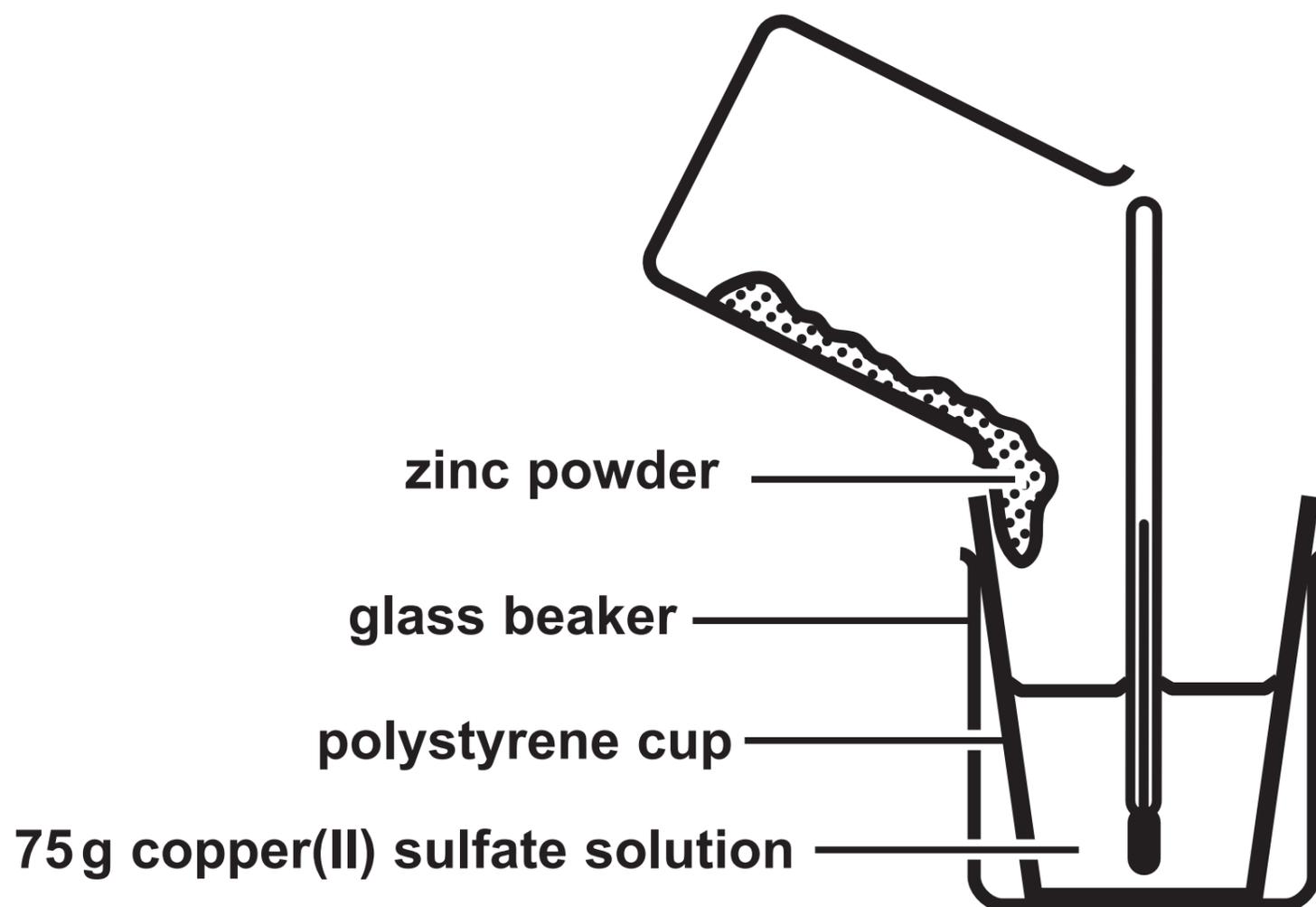
Question 7(d)(i)



Question 7(d)(i)



Question 8(a)



Question 9

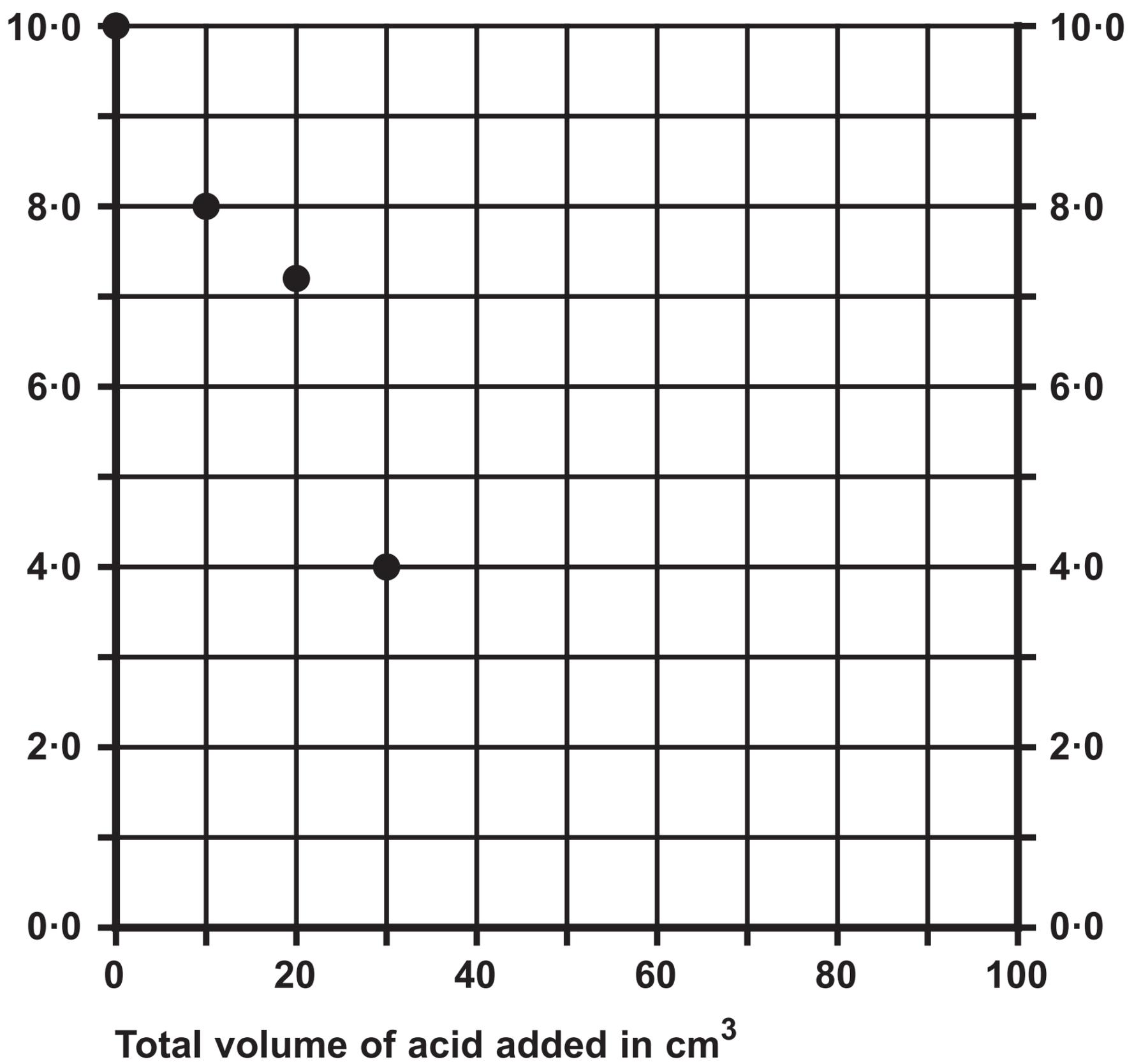
Catalyst	Time for mixture to become colourless in s
no catalyst	55
cobalt(II) chloride solution	32
copper(II) sulfate solution	8
iron(II) sulfate solution	27
zinc nitrate solution	75

Question 10

Total volume of acid added in cm³	Electrical conductivity in arbitrary units
0·0	10·0
10·0	8·0
20·0	7·2
30·0	4·0
40·0	2·0
50·0	0·0
60·0	1·4
70·0	2·8
80·0	4·2
90·0	5·6
100·0	7·0

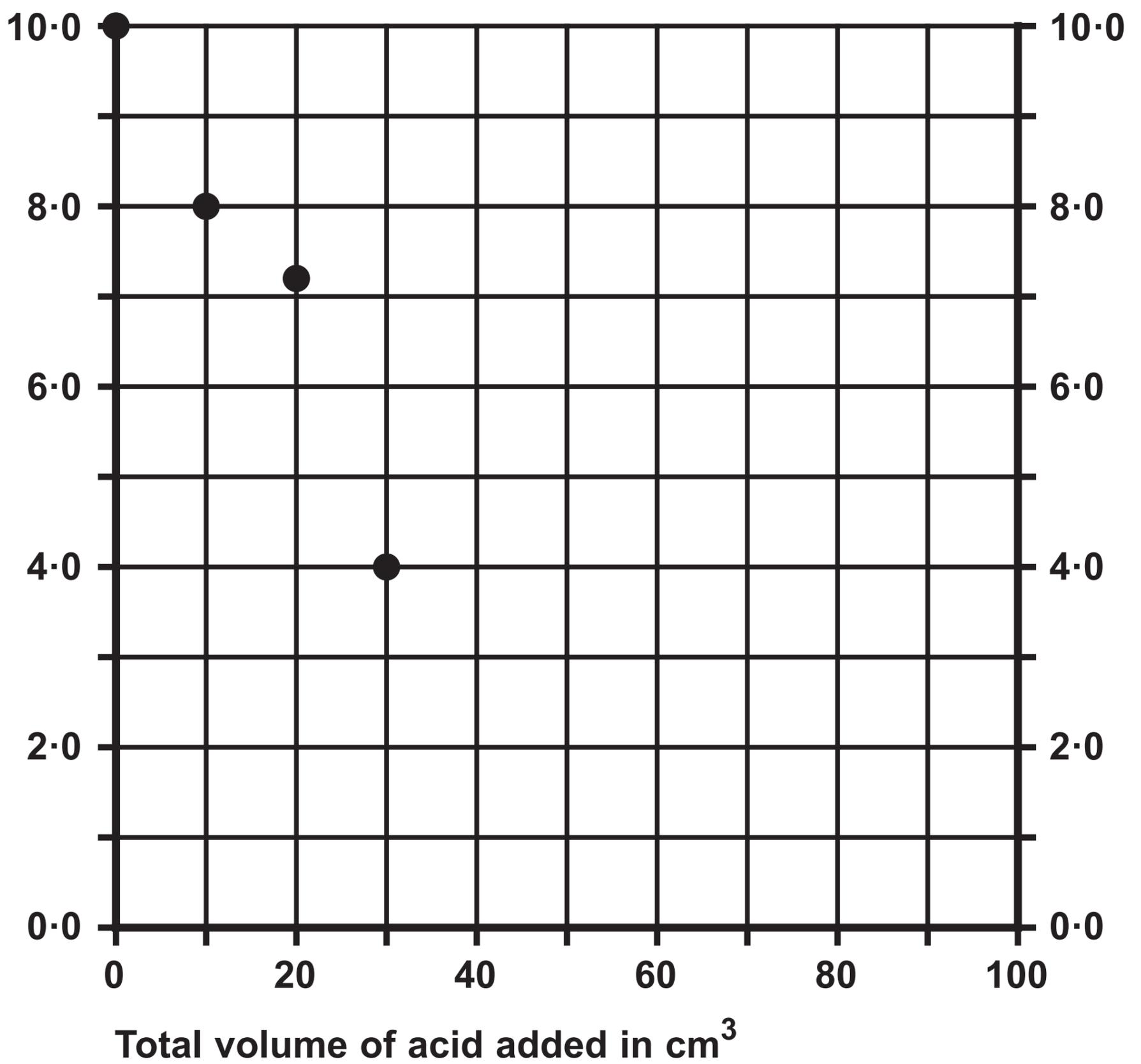
Question 10(a)

Electrical
conductivity in
arbitrary units

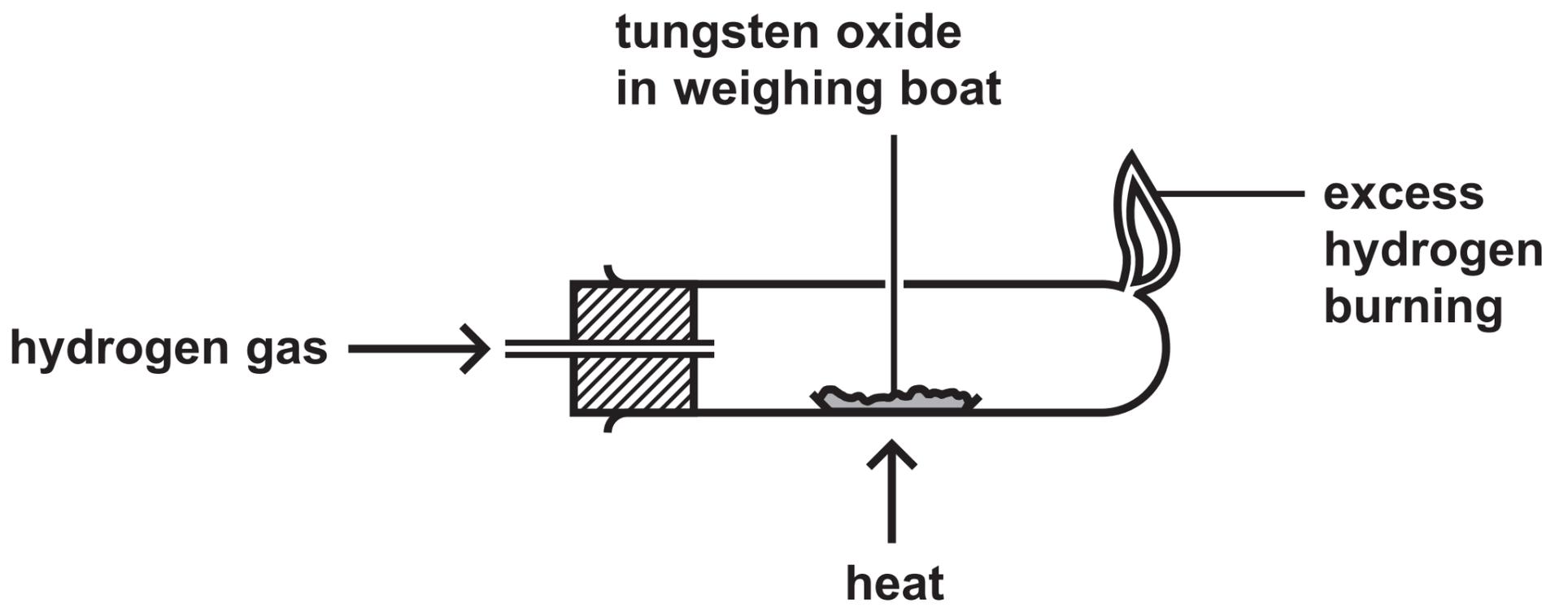


Question 10(a)

Electrical
conductivity in
arbitrary units



Question 11(a)



Question 11(a)(iii)

	Mass in g
empty weighing boat	14.72
weighing boat and tungsten oxide	17.04
weighing boat and tungsten	16.56