

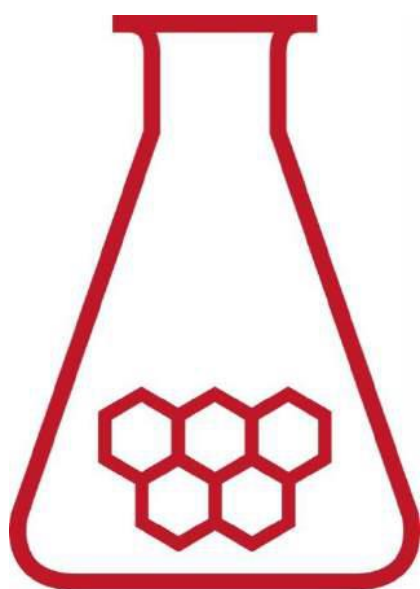
44th National Chemistry Olympiad

University of Leiden

Leiden

Answer sheets

Tuesday June 13, 2023



**SCHEIKUNDE
OLYMPIADE**



55TH INTERNATIONAL
CHEMISTRY OLYMPIAD
SWITZERLAND 2023



Universiteit Leiden

NB.: Put your name at the top of every page!

Name:

Practical test answer sheets
Experiment 1

Question 1

mass of 25 mL beaker:

mass of 25 mL beaker with solid:

mass of sample vial:

mass of sample vial with crystals:

mass of filter paper:

mass of filter paper with product:

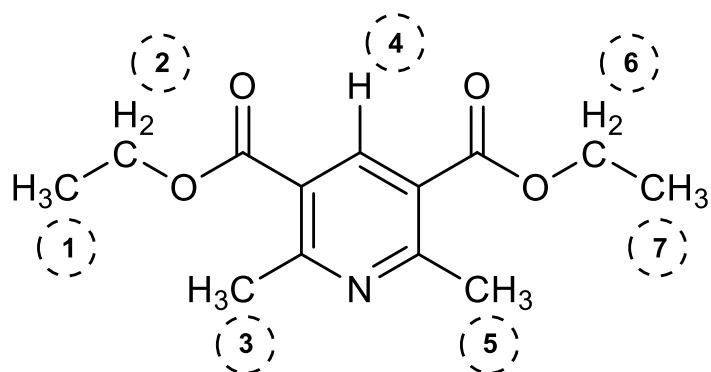
mass of Hantzsch ester added to the 100 mL volumetric flask:

absorbance (extinction) of the solution of Hantzsch ester:

Question 2

Name:

Question 3



Chemical shift (ppm)	Integral	Signal	Justification

Name:

Question 4

Question 5

Question 6

Name:

**Practical test answer sheets
Experiment 2**

Questions 7 and 8

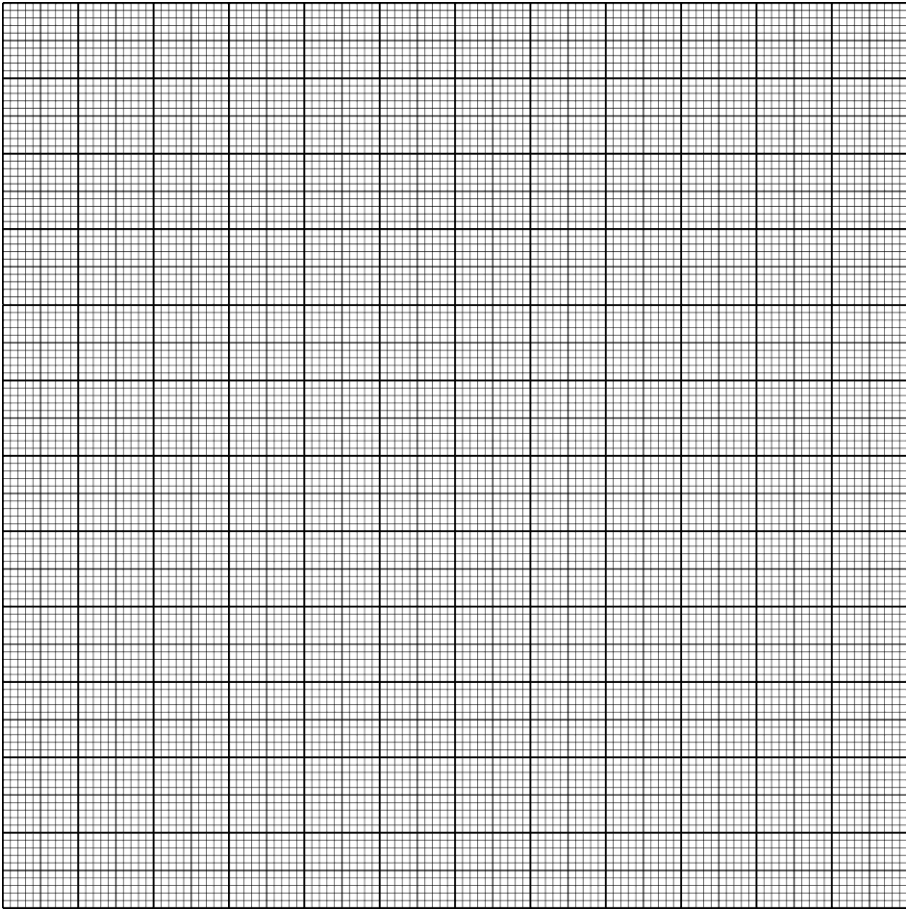
mass of Hantzsch ester used:

Dilution no.	Concentration (mol L ⁻¹)	Absorbance
0 (stock)		
1		
2		
3		
4		

Calculation

Name:

Question 9



Question 10