

Name:

Date:

SOLUTION PREPARATION BY DILUTION FROM LIQUIDS (5A)

RECORD SHEET

Solution to be prepared:

Solute: Molar mass:

Volume: Composition:

Liquid (Stock solution):

Composition:

Solution density:

Calculated volume:

Measured volume (VI):

Relevant calculations:

Volume determination of the volumetric flask by using the density of water:

I. Temperature of water: °C Water density (ρ_{water}): g/cm³

II. Mass of dry volumetric flask:

III. Mass of volumetric flask+water:

IV. Mass of water (m_{water}):

V. Volume of volumetric flask: $V_{\text{flask}} = m_{\text{water}}/\rho_{\text{water}} =$

Density determination of prepared solution:

Mass of dry flask (II. from previous page):g

VII. Mass of volumetric flask+solution:g

VIII. Mass of solution (m_{solution}):g

Solution density:

$$\rho_{\text{solution}} = m_{\text{solution}}/V_{\text{flask}} =$$

Composition of the prepared solution:

Volume of volumetric flask (V. previous page) cm³

Volume of stock solution measured (VI. previous page): cm³

IX. Composition:

Relevant calculations:**Composition of the prepared solution based on its density:**

Table of solution density (Source:

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Interpolation	Density (g/cm ³)	Composition
Lower point		
Upper point		
Interpolant point		

Relevant calculations:**Safety Data Sheet:**

R sentences:

S sentences:

H sentences:

P sentences: