

Differences between first and second editions of Preparatory Problems for IChO 2020

Problem 7. Data of ^1H NMR were deleted. Nevertheless, this correction cannot affect the solution of the problem.

Differences between second and third editions of Preparatory Problems for IChO 2020

Problem 1.7. Solution was corrected.

Problem 5. The structure of **J** (in 5.4) was added in the answer.

Problem 13.4. ffc was corrected as fcc.

Problem 15. In Scheme, (Concentrate) was added under NaOH.

Problem 16. section *After adjusting pH of the solution to 6.0, 1.25 mL of 0.0030 M I₂ solution*

The sentence for 16.20 and 16.21 was modified below.

After adjusting pH of the solution to 6.0, 12.5 mL of 0.300 M I₂ solution

Problem 18. section *In this case, the ~~total~~ energy can be written as follows:*

The sentence was modified.

Problem 21. section *One of the common theoretical approaches to explain KIE is the primary KIE. In the primary KIE approach, ...*

The sentence was modified below.

In one of the common theoretical approaches to explain KIE,

Problem 22. The answer (in 22.5) was corrected.

$$[C] = 1.80 \text{ mol dm}^{-3}$$

Problem 24.3. Formula was corrected.

$$\varphi_{\text{AO-DNA}} - \varphi_{\text{AO}} = \Delta\varphi$$