

A flask contains a mixture of isohexane and 3-methylpentane. One of the liquids boils at 63°C while the other boils at 60°C . What is the best way to separate the two liquids and which one will be distilled out first?

- A fractional distillation, 3-methylpentane
- B simple distillation, 3-methylpentane
- C fractional distillation, isohexane
- D simple distillation, isohexane

Explanation

Isohexane and 3-Methylpentane Having same molecular formula.

Isohexane boil at 60°C and 3-Methyl pentane boil at 63°C . Both Having low Boiling point difference so Fractional distillation is useful for separation and Isohexane Having low Boiling point So comes out first.