Checking Precipitate Recovery After a Wash

Scoring guide · one credit per question · review written work against each rubric

Checking Precipitate Recovery After a Wash

Question 1

Choice (2)

P gives 13.0 − 3.0 = 10.0 g of desired solid. Q gives 12.0 − 1.0 = 11.0 g.

Question 2

Q recovers 11.0 g of a possible 15.0 g. The recovered percentage is 11.0/15.0 × 100, about 73%.

Question 3

The further wash leaves 11.0 − 0.50 = 10.5 g of desired solid and 1.0 − 0.80 = 0.20 g of impurity. It meets both requirements.

Question 4

The further wash leaves less impurity but also dissolves 0.50 g of desired solid. The sample becomes purer while the desired mass and its recovered percentage fall.