

Limiting Reagent Lab Data Chart

STAGE 1. Constant Iodate Volume

Test Tube	Starting Vol Ba ²⁺ (mL)	Starting Vol IO ₃ ⁻ (mL)	Actual Height of ppt (mm)	Excess Ba ²⁺ or IO ₃ ⁻ ?	Starting mmol Ba ²⁺	Starting mmol IO ₃ ⁻	Expected mmol ppt	Expected Excess? (mmol)
A	1	3						
B	3	3						
C	5	3						
D	7	3						
E	9	3						

Limiting Reagent Lab Data Chart

STAGE 2. Constant Barium Volume

Test Tube	Starting Vol Ba ²⁺ (mL)	Starting Vol IO ₃ ⁻ (mL)	Actual Height of ppt (mm)	Excess Ba ²⁺ or IO ₃ ⁻ ?	Starting mmol Ba ²⁺	Starting mmol IO ₃ ⁻	Expected mmol ppt	Expected Excess? (mmol)
A	3	1						
B	3	3						
C	3	5						
D	3	7						
E	3	9						

Limiting Reagent Lab Data Chart

STAGE 3. Changing Volumes of Iodate and Barium Ions

Test Tube	Starting Vol Ba ²⁺ (mL)	Starting Vol IO ₃ ⁻ (mL)	Actual Height of ppt (mm)	Excess Ba ²⁺ or IO ₃ ⁻ ?	Starting mmol Ba ²⁺	Starting mmol IO ₃ ⁻	Expected mmol ppt	Expected Excess? (mmol)
A	9	1						
B	7	3						
C	5	5						
D	3	7						
E	1	9						