**EXPERIENCIA**

**1**

**2**

**3**



Se propone investigar cuál de los tres líquidos (teñidos con colorante alimentario de verde, azul y rojo) es agua, justificando convenientemente la respuesta.

Para ello utilizaremos una propiedad específica como es la densidad.

En el laboratorio se han medido volúmenes (50, 100, 150 y 250 mL) de los tres líquidos y se ha determinado su masa, obteniéndose los siguientes datos. Calcula la densidad para cada par de valores y, después, la media de los valores para cada líquido.

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| **Líquido 1 (verde)** | | | | | |
| V (mL) | 0 | 50 | 100 | 150 | 200 |
| m (g) | 0,0 | 49,8 | 99,8 | 150,1 | 199,0 |
| d (g/mL) |  |  |  |  |  |
| Media (g/mL) | |  | | | |
| **Líquido 2 (azul)** | | | | | |
| V (mL) | 0 | 50 | 100 | 150 | 200 |
| m (g) | 0,0 | 55,2 | 110,6 | 166,4 | 221,5 |
| d (g/mL) |  |  |  |  |  |
| Media (g/mL) | |  | | | |
| **Líquido 3 (rojo)** | | | | | |
| V (mL) | 0 | 50 | 100 | 150 | 200 |
| m (g) | 0,0 | 59,2 | 119,2 | 178,5 | 237,5 |
| d (g/mL) |  |  |  |  |  |
| Media (g/mL) | |  | | | |

Anota los valotres de densidad obtenidos (con dos cifras significativas)



¿Cuál es el agua?

* Realiza la representación gráfica masa (g)/volumen (mL) para el agua:

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* Determina la pendiente de la recta obtenida.