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| **PLANEACIÓN DE LA SÍNTESIS** | | | | | | | | | | | |
| **Síntesis de** | Benzil | | | | | | **Cantidad** | | |  | |
| **Ecuación** |  | | | | | | | | | | |
| **Compuesto** | Benzoína | Acetato de cobre | Ácido acético | Agua |  |  | |  |  | |  |
| **Fórmula** | C14H12O2 | Cu(CH3COO)2H2O | CH3COOH | H2O |  |  | |  |  | |  |
| **Masa molecular (g/mol)** | 212.25 | 199.65 | 60.05 | 18 |  |  | |  |  | |  |
| **Estado físico** | Líquido | Sólido | Líquido | Líquido |  |  | |  |  | |  |
| **Milimoles** | 32.98 | 5.51 | 525 | 555 |  |  | |  |  | |  |
| **Miligramos** | 7000 | 11000 | 315000 | 10000 |  |  | |  |  | |  |
| **Mililitros** |  |  | 30 | 10 |  |  | |  |  | |  |
| **Densidad (g/mL)** | 1.31 | 1.88 | 1.05 | 1 |  |  | |  |  | |  |
| **P. fusión (°C)** | -26 | 563.7 | 16 | 0 |  |  | |  |  | |  |
| **P ebullición (°C)** | 179 | 1500 | 118.1 | 100 |  |  | |  |  | |  |
| **Solubilidad** | Poco soluble en agua | Soluble en agua | Miscible en agua, etanol, etileter, acetona, |  |  |  | |  |  | |  |
| **Peligros** | Irritante a los ojos y la piel | Tóxico | Irritante, inflamable, peligro ingestión |  |  |  | |  |  | |  |
| **Condiciones** |  | | | | | | | | | | |

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| **Adaptada de** |  | | | | |
| **Síntesis de** | Benzoina | **Rendimiento** |  | **Cantidad** |  |