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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **PLANEACIÓN DE LA SÍNTESIS** | | | | | | | | | | |
| **Síntesis de** | Benzil | | | | | **Cantidad** | | |  | |
| **Ecuación** |  | | | | | | | | | |
| **Compuesto** | Benzil | Úrea | Etanol | Agua | Ácido Clorhídrico |  | Hidr[oxido de potasio |  | |  |
| **Fórmula** | C14H10O2 | CH4N2O | CH3H60 | H2O | HCl |  | KOH |  | |  |
| **Masa molecular (g/mol)** | 210.23 | 60.06 | 46.07 | 18 | 36.46 |  |  |  | |  |
| **Estado físico** | Sólido | Sólido | Líquido | Líquido | Líquido |  |  |  | |  |
| **Milimoles** | 3.00 | 5.61 |  |  |  |  |  |  | |  |
| **Miligramos** |  | 337 |  |  |  |  |  |  | |  |
| **Mililitros** |  |  | 7.5 |  | 10 |  |  |  | |  |
| **Densidad (g/mL)** | 1.23 | 1.32 | 0.7893 | 1 | 1.19 |  |  |  | |  |
| **P. fusión (°C)** | 94-96 | 133-135 | -114 | 0 | -26 |  |  |  | |  |
| **P ebullición (°C)** | 346 |  | 78 | 100 | 48 |  |  |  | |  |
| **Solubilidad** | Insoluble en agua, soluble en etanol, eter y benceno | Soluble en agua, etanol, acetonitrilo | Miscible en agua |  | Soluble en agua |  |  |  | |  |
| **Peligros** | Irritante a los ojos y la piel | Dosis letal de 8500mg/kg | Irritante, inflamable |  | Irritante, corrosivo |  |  |  | |  |
| **Condiciones** |  | | | | | | | | | |

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| **Adaptada de** |  | | | | |
| **Síntesis de** | Benzil | **Rendimiento** |  | **Cantidad** |  |