**Experiment name:** Benzalazine

**Classification:** Condensation reactions

**Reaction scheme:**



**Experimental procedure and purification technique:**

Into a 250 ml beaker, a mixture of hydrazine sulfate (0.6 g; 5 mmol), water (4.5 ml) and concentrated NH3 (0.6 ml) is placed and the required benzaldehyde (1.15 g, 1.1; 11 mmol) is added dropwise with vigorous stirring during a period of 15 minutes. After the addition is complete, allow the milky suspension to stand overnight to precipitate the yellow-colored crude product and observe that the supernatant solution becomes clear. Filter off the precipitate at the pump, wash it with water and air dry upon filter paper. It may be purified from the recrystallisation from ethanol (2 ml). m.p: 92-93 °C, predicted yield: 0.9 g (100%).

Reference source (1): “Vogel’s Textbook of Practical Organic Chemistry (5th edition)”: -

Reference source (2): “Denel Organik Kimya (6th edition)”: 818.