

论文

乙酸苯汞在水中溶解度的测定

俞崇灵

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摘要:

关键词:

THE SOLUBILITY OF PHENYLMERCURIC ACETATE IN WATER

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Abstract:

The solubility of pure phenylmercuric acetate in water was determined in intervals of 5° between the temperature of 0°-50°C. The solution was first saturated with the salt at a higher temperature, then cooled to the desired temperature and allowed to stand to reach equilibrium. Thereafter, a weighed portion of the solution was cautiously evaporated to dryness at 60°-70°C, the weight of the residue was determined and the solubility C was calculated. After smoothing out the observed values of C by the method of least squares, an empirical relation has been established between the most probable value, C, as expressed in g per 100 g solution, and the temperature, t(°C), as follows:

C=0.246+0.00186t+0.0001948t² The observed value, C, and the calculated one, C, are fairly accordant in most cases. As a result, the most probable solubility found for 15°, 20° and 25°C are 1:310, 1:280 and 1:240, respectively. Therefore the solubility of phenylmercuric acetate cited both in the British Pharmaceutical Codex 1949 and the Merck Index, as 1:600 at room temperature, is rather questionable.

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