Answer on Question #70512 - Chemistry, Other

How would you use silver nitrate reagent to distinguish between tartaric acid and one of its salts?

Answer:

Tartaric acid gives silver mirror test.

$$\begin{array}{c} \text{CH(OH)COOH} \\ \mid \\ \text{CH(OH)COOH} \\ \text{Tartaric acid} \end{array} + 2\text{Ag(NH}_3)_2\text{NO}_3 \longrightarrow \begin{array}{c} \text{CH(OH)COO}^- \\ \mid \\ \text{COO}^- \end{array} \\ + 2\text{Ag} + 2\text{NH}_4\text{NO}_3 + 2\text{NH}_3 \end{array}$$

This is not actual for its salts.

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