



化学沉淀-溶剂沉淀法脱除湿法磷酸中氟的研究

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Defluorination of wet-process phosphoric acid with chemical precipitation-solvent precipitation

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- 摘要
- 参考文献
- 相关文章

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摘要 以乙醇为溶剂,RNH₂为沉淀剂,采用化学沉淀-溶剂沉淀法对湿法磷酸进行净化,在乙醇与预处理酸体积比为2.0、溶剂沉淀剂用量为3.5%、反应温度40℃、反应时间100min条件下,脱氟率可达到96%以上,磷收率为86%以上.

关键词: 湿法磷酸 化学沉淀 溶剂沉淀 脱氟

Abstract: The purification of wet-process phosphoric acid was researched with chemical precipitation-solvent precipitation with ethanol as solvent and RNH₂ as precipitator.The optimized process parameters were obtained:the volume ratio of ethanol to pretreatment acid 2: 1,solvent precipitator 3.5% (w),reaction temperature 40 ℃,reaction time 100 min.Under the condition,the ratio of defluorination was up to 96% and the yield of phosphorus was up to 86%.

Key words:

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