

# Synthesis of Lithium Hexafluorotitanate

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**Abstract**—It was found in using anatase titanium oxide for the preparation lithium hexafluorotitanate by interaction of titanium hydroxide or oxide and lithium fluoride with hydrofluoric acid an output of  $\text{Li}_2\text{TiF}_6$  reached 97.1% at “reverse” synthesis, 100% consumption of LiF and 200% consumption of 54% HF.

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