

**ATTEMPTS FOR THE SYNTHESIS OF SODIUM-2,2,2-TRIFLUOROETHANOLATE
FROM SODIUM HYDROXIDE AND 2,2,2-TRIFLUOROETHANOLE**

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The application of sodium-2,2,2-trifluoroethanolate (NaTFE) in the synthesis of trifluoroethoxyphosphazenes is the most one described in the literature.

Other applications like e.g. the synthesis of ethers might become more interesting in the future. Therefore we tried to develop the synthesis of NaTFE from sodium hydroxide (instead of sodium) and 2,2,2-trifluoroethanole (TFE) using polyethyleneglycole as a phase transfer catalyst (PTK).

Problems occurred during the purification step after the synthesis. Evacuation and heating of the NaTFE-samples resulted in decomposition reactions of the substance depending on its grade of purity.

A review of problems concerning the purification of NaTFE will be given.