

# Zum Chemischen Transport von Rhenium und Rheniumoxiden

On the Chemical Transport of Rhenium and Rhenium Oxides

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Synthesis and single crystal growth by chemical transport reactions of rhenium and rhenium oxides is reported. Several transport agents like the mercury halides  $\text{HgCl}_2$ ,  $\text{HgBr}_2$ ,  $\text{HgI}_2$ , tellurium tetrachloride and iodine have been employed the transport of the rhenium compounds. Mass spectrometric experiments gave informations about the composition of the gas phase. The transport reactions were traced by calculations based on the knowledge of the gas phase species and their thermodynamical data.

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