

PREPARATION OF VOLATILE BINARY FLUORIDES IN AUTOCLAVES WITH ELEMENTAL FLUORINE, E.G. OSF_6 , IRF_6 , REF_7 , REF_6 , PTF_6

VERMITTELTE METHODEN

- Safety considerations
- Choice of materials (stainless steel, Monel)
- Amount considerations
- Pressure estimates
- Metal vacuum techniques

PREPARATION OF VOLATILE BINARY FLUORIDES IN STREAM SYSTEMS, E.G. ASF_5 , GEF_4

VERMITTELTE METHODEN

- Safety considerations
- Handling liquid oxygen
- Choice of materials (copper, stainless steel), metal vacuum techniques, glass vacuum techniques.

SOLID-SOLID TRANSFORMATIONS USING ELEMENTAL FLUORINE, EG, HGF_2 , AGF_2 , CS_2CUF_6

VERMITTELTE METHODEN

- safety considerations
- preparation of starting materials
- Use of the dry box

REACTIONS WITH ELEMENTAL FLUORINE UNDER IRRADIATION, E.G. XEF_2 , KAGF_4

VERMITTELTE METHODEN

- Safety considerations
- choice of materials (quartz, PFA = perfluorinated vinyl ether – tetrafluoro ethane copolimerisate)
- preparation of the starting materials
- choice of the light source
- Handling of anhydrous HF in case of KAgF_4