

Mini glove box for sample transfer

The self-made mini glove box in **Fig. 1** has a size of 17 cm (height) x 40 cm x 20 cm. This small size enables an easy transportation of the mini glove box and its usage in each NMR laboratory. At the front, holes and metal rings with a diameter of ca. 12 cm allow connection of standard laboratory gloves, which have a size that all regions inside the box can be easily reached. At the left-hand side, a tube connector for introducing dry nitrogen gas coming from a liquid nitrogen evaporator exists.

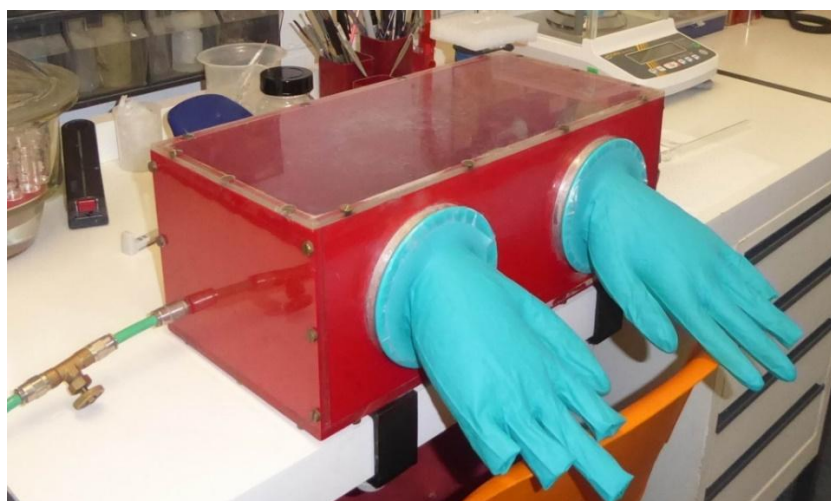


Fig. 1

At the right-hand side (**Fig. 2**), there is a large door for the transfer of tools and other laboratory materials. An additional small tube with an inner diameter of ca. 8 mm is utilized for the exhaust of the nitrogen gas and the transfer of small sample tubes and MAS NMR rotors. Therefore, it is not necessary to open the large door for the transfer of this small equipment. For further details, see subsequent Section “drawings”.



Fig. 2

The gloves in **Fig. 1** are NITRILE laboratory gloves of Ansell (**Fig. 3**). These gloves are suitable for the handling of small parts, such as MAS NMR rotors and their caps. Via TESA tape, the NITRILE gloves are fixed at the metal rings at the front of the mini glove box.



Fig. 3