

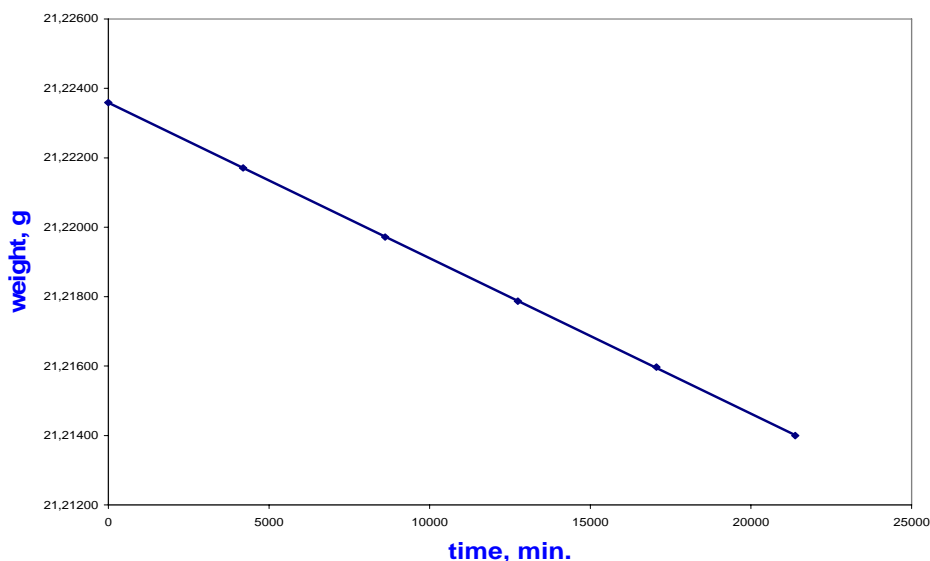
Calibration Certificate

This is to certify that the permeation tube **code S2PT serial n. 6842** has the parameters recorded below:

- **chemical fill: Hydrazine monohydrate**
- **calibration temperature: 50,0 °C**
- **permeation rate: 518 ng/min ±5%**
- **average useful life expected at 518 ng/min: 1 year**

Calibration has been performed, using the method described in the protocol **U.S. EPA-600/R-97/121, Section 3, procedure P3**, by keeping the permeation tube in a constant temperature chamber purged by a zero gas weighing periodically until a stable weight loss per unit of time has been achieved. Temperature is measured with a SIT-traceable thermoresistance (certificate n. 23868 by Gefran S.p.A., Italy) and controlled with ± 0.05 °C accuracy. The weight loss is determined on a semi-micro analytical balance accurate to ± 0.01 mg (Sartorius BP210D s/n 70505503) and calibrated using SIT-traceable masses reference standards (certificates n. 543/07, n. 544/07, n. 545/07 by CIBE S.r.l., Italy). Gravimetric permeation rate determinations are continued until the standard error reaches 95% confidence level.

Following graphic shows weight loss versus time, the slope of the best fitting straight line gives the permeation rate.



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European Chemist *

 **fine** permeation tubes

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