Key comparison BIPM.RI(II)-K1.Sc-47

MEASURAND: Equivalent activity of ⁴⁷Sc

 x_i : result of measurement carried out in the SIR for the sample submitted by laboratory i

 u_i : combined standard uncertainty of x_i

Lab i	<i>x</i>	u _i / kBq	Date of measurement
IRMM	164590	340	83-10-14

Key comparison EUROMET.RI(II)-K2.Sc-47

MEASURAND: Equivalent activity of ⁴⁷Sc

 x_i : result of measurement carried out at laboratory i

converted to the equivalent activity through the IRMM

 u_i : combined standard uncertainty of x_i

Lab i	<i>x</i> ; / kBq	u _i / kBq	Measurement report date
BNM-LNHB	164840	270	1983
NPL	164980	340	1983

Key comparison BIPM.RI(II)-K1.Sc-47

MEASURAND: Equivalent activity of ⁴⁷Sc

Key comparison reference value: there is currently no KCRV for this radionuclide

Linking EUROMET.RI(II)-K2.Sc-47 to BIPM.RI(II)-K1.Sc-47

The value x_i is the equivalent activity for laboratory i participant in EUROMET.RI(II)-K2.Sc-47 having been normalized to the value of the IRMM as the linking laboratory.

The degree of equivalence between two laboratories i and j, one participant in BIPM.RI(II)-K1.Sc-47 and one in EUROMET.RI(II)-K2.Sc-47, or both participants in EUROMET.RI(II)-K2.Sc-47, is given by a pair of terms expressed in MBq: $D_{ij} = x_i - x_j$ and U_{ij} , its expanded uncertainty (k = 2), approximated by $U_{ij} = 2(u_i^2 + u_j^2 - 2fu_i^2)^{1/2}$ with I being the linking laboratory when each laboratory is from the EUROMET and f is the correlation coefficient.

Degrees of equivalence for ⁴⁷Sc

Lab *i* Lab *i* **IRMM BNM-LNHB** NPL Uii Uii D_{ii} Uii / MBq / MBq / MBq IRMM -0.25 -0.39 0.57 0.71 **BNM-LNHB** 0.25 0.57 -0.14 0.57 NPL 0.71 0.39 0.14 0.57

There is no graph of equivalence since no degrees of equivalence with respect to the key comparison reference value could be computed.