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Reliability of the Activity Determined by the Quenching Correction Method for Two Groups of Emulsion Scintillators*

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The reliability of the activity, determined using conventional quenching correction methods, has been studied for two groups of emulsion scintillators: (1) scintillators with three distinct water dilution criteria; and (2) scintillators forming a miscible solution with up to 50% water content. Whilst for the first group of scintillators the error of the activity measured becomes frequently larger with increased water content, the measurements with the second group of scintillators fit the quenching correction curve.

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