$K(P_2O_5) = 0.170$ gives a density of 3.26 for the Huddersfield apatite, and it gives a better agreement between the measured and calculated densities in Deer, Howie & Zussman. It is therefore suggested that $K(P_2O_5) = 0.170$ be used when applying the rule of Gladstone and Dale. Young & Munson (1966) also suggested that the $K$-value for $P_2O_5$ in Larsen & Berman (1934) is too high.

Initially the work on the Huddersfield apatite was done to establish a phosphate standard for our microprobe laboratory. As a result about 15 grams of the analyzed crystal are available for exchange with interested laboratories for other standards.

REFERENCES


Manuscript received November, 1973.

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