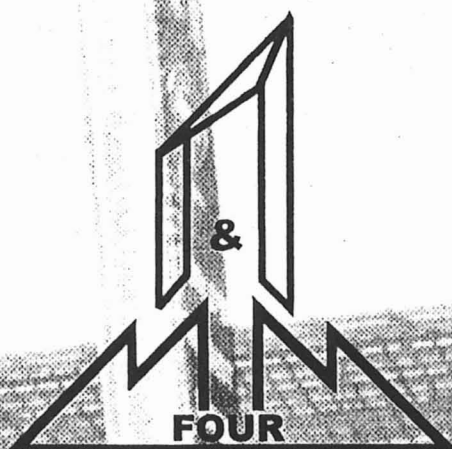


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Kentbrooksite, ferrokentbrooksite and eudialyte from Poços de Caldas, Minas Gerais, Brazil

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Eudialyte was quoted in the rocks of the Poços de Caldas alkaline massif, Minas Gerais, Brazil, by several authors (*e.g.* Guimarães 1948). Microprobe analyses were obtained by Gualda & Vlach (1996) and Johnsen & Gault (1997). On the basis of optical data, Gualda & Vlach (1996) classified one sample as "eudialyte" (uniaxial +), one as "mesodialyte" (optically isotropic), and two as "eucolite" (uniaxial negative). Johnsen *et al.* (1997) proved the terms "mesodialyte" and "eucolite" to be meaningless. Following the recommended procedure (Johnsen & Grice 1999) to arrive at the empirical formula of eudialyte-group minerals, the specimens from Poços de Caldas are now classified as eudialyte [both the "eudialyte" and "mesodialyte" of Gualda & Vlach (1996), and the specimen studied by Johnsen & Gault (1997)], kentbrooksite (one "eucolite" of Gualda & Vlach 1996) and ferrokentbrooksite (the other "eucolite" of Gualda & Vlach 1996).

REFERENCES

- Gualda, G.A.R. & Vlach, S.R.F. (1996) Eudialitas-eucolitas do Maciço Alcalino Poços de Caldas, MG-SP: Quimismo e correlações com comportamento óptico. *XXXIX Congresso Brasileiro de Geologia, Anais*, 3, 34-37.
- Guimarães, D. (1948) The zirconium ore deposits of the Poços de Caldas plateau, Brazil, and zirconium geochemistry. *Instituto de Tecnologia Industrial, Boletim* 6, 79p.
- Johnsen, O. & Gault, R.A. (1997) Chemical variation in eudialyte. *N.Jb.Mineral.Abh.* 171, 215-237.
- Johnsen, O. & Grice, J.D. (1999) The crystal chemistry of the eudialyte group. *Can.Mineral.* 37, 865-891.
- Johnsen, O., Petersen, O.V., & Gault, R.A. (1997) Optical data on minerals of the eudialyte group: Discussion of the eucolite – mesodialyte – eudialyte terminology. *N.Jb.Mineral.Mh.*, 371-383.