Crystal Data: Hexagonal. *Point Group*: 3*m*. As prismatic crystals to 15 mm.

Physical Properties: Cleavage: [Poor/indistinct on $\{0001\}$.] Fracture: Conchoidal. Tenacity: Brittle. Hardness = ~ 7 D(meas.) = n.d. D(calc.) = 3.073

Optical Properties: Translucent. *Color*: Dark red. *Streak*: Pink. *Luster*: Vitreous. *Optical Class*: Uniaxial (-). $\omega = 1.650(5)$ $\varepsilon = 1.620(5)$ *Pleochroism*: O = orange; E = pink.

Cell Data: Space Group: R3m. a = 15.9273(2) c = 7.2001(1) Z = 3

X-ray Powder Pattern: Osarara, Narok district, Kenya. 2.963 (100), 3.483 (84), 2.576 (68), 4.222 (67), 3.983 (64), 1.915 (52), 6.377 (44)

| Chemistry: | (1) | | (1) |
|-------------------|---------|---------|--------|
| SiO_2 | 37.01 | MgO | 8.56 |
| TiO_2 | 0.14 | Na_2O | 2.65 |
| $\mathrm{B_2O_3}$ | [10.76] | K_2O | 0.10 |
| Al_2O_3 | 33.11 | H_2O | [2.65] |
| Fe_2O_3 | 5.00 | Total | 101.58 |
| FeO | 0.19 | | |

(1) Osarara, Narok district, Kenya; average of 10 electron microprobe analyses supplemented by Mössbauer spectrometry, B_2O_3 and H_2O calculated from stoichiometry; corresponds to ${}^X(Na_{0.83}\square_{0.15}K_{0.02})_{\Sigma=1.00}{}^Y(Al_{1.34}Fe^{3^+}_{0.58}Mg_{1.03}Fe^{2^+}_{0.03}Ti_{0.02})_{\Sigma=3.00}{}^Z(Al_{4.95}Mg_{1.03}Fe^{3^+}_{0.02})_{\Sigma=6.00}{}^T(Si_{5.98}Al_{0.02}O_{18})_{\Sigma=6.00}{}^B(BO_3)_3{}^V(OH)_3{}^W[O_{0.76}(OH)_{0.24}]_{\Sigma=1.00},$ which shows the Mg-Al order-disorder in the Y and Z sites.

Polymorphism & Series: Oxy-dravite is related to oxy-schorl, oxy-chromium-dravite, oxy-vanadium-dravite, and povondraite through the substitution of Mg²⁺ for Fe²⁺, Al³⁺ for Cr³⁺, Al³⁺ for V³⁺, and Al³⁺ for Fe³⁺, respectively.

Mineral Group: Tourmaline supergroup, alkali-subgroup 3.

Occurrence: In quartz-muscovite schist.

Association: Quartz, muscovite.

Distribution: From Osarara, Narok district, Kenya.

Name: As a dravite with $A1^{3+} + O^{2-} \rightarrow Mg^{2+} + (OH)^{1-}$ relative to the composition of dravite.

Type Material: Museum of Mineralogy, Earth Sciences Department, Sapienza University of Rome, Italy (33066).

References: (1) Bosi, F. and H. Skogby (2013) Oxy-dravite, Na(Al₂Mg)(Al₅Mg)(Si₆O₁₈) (BO₃)₃(OH)₃O, a new mineral species of the tourmaline supergroup. Amer. Mineral., 98, 1442-1448.