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Crystal Data: Monoclinic. Point Group: 2/m. Asbestiform; as small bundles of extremely fine fibers, to several cm; these may be folded or imbricated.

Physical Properties: Cleavage: Good on {100}. Fracture: Cross fractures on {010}. Tenacity: Brittle. Hardness = 2-3 D(meas.) = 3.30-3.38 D(calc.) = 3.34

Optical Properties: Transparent to translucent. *Color:* Creamy white to very pale rose; colorless to faint yellow in thin section.

Optical Class: Biaxial (-). Orientation: Z = b; $X \simeq \perp \{100\}$. $\alpha = 1.660(5)$ $\beta = 1.684(2)$ $\gamma = 1.690(2)$ 2V(meas.) = 48°-70°

Cell Data: Space Group: $P2_1/m$. a = 9.518(6) b = 5.753(2) c = 12.04(1) $\beta = 108.00(5)^{\circ}$ Z = 2

X-ray Powder Pattern: Ottré, Belgium. 3.511 (100), 2.870 (60), 3.103 (45), 4.290 (40), 5.719 (35), 2.840 (35), 8.51 (30)

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| | (1) | (2) | (3) |
|-----------------------------|---------|---------|--------|
| SiO_2 | 37.82 | 37.45 | 37.84 |
| TiO_2 | | trace | |
| Al_2O_3 | 46.88 | 48.09 | 48.15 |
| $\mathrm{Fe}_2\mathrm{O}_3$ | 1.10 | | |
| Cr_2O_3 | | trace | |
| FeO | | 1.29 | |
| MnO | 9.08 | 9.14 | 11.17 |
| CuO | 0.79 | | |
| ZnO | 0.49 | | |
| MgO | 0.44 | 0.45 | |
| H_2O | [2.83] | [2.82] | 2.84 |
| P_2O_5 | 0.35 | | |
| Total | [99.78] | [99.24] | 100.00 |

(1) Ottré, Belgium; by electron microprobe, total Fe as Fe_2O_3 , H_2O calculated from stoichiometry. (2) Recht, Belgium; by electron microprobe, H_2O calculated from stoichiometry. (3) $MnAl_6Si_4O_{17}(OH)_2$.

Occurrence: In quartz veins cutting Mn, Al-rich metapelites, derived from shales subjected to low-grade metamorphism.

Association: Quartz, pyrophyllite, ottrélite, andalusite, sudoite, kaolinite, rutile, dickite (Ottré, Belgium); chloritoid, hematite, chlorite (Sart-Close, Belgium).

Distribution: In Belgium, in the Stavelot massif, at Ottré, at Sart-Close, near Salmchâteau, at Regne, and at Recht.

Name: For Charles Joseph Davreux (1800–1863), Belgian pharmacist and natural scientist, Professor of Mineralogy at the University of Liège, Belgium.

Type Material: Royal Institute of Natural Sciences of Belgium, Brussels, Belgium.

References: (1) Dana, E.S. (1892) Dana's system of mineralogy, (6th edition), 706. (2) Fransolet, A.-M. and P. Bourguignon (1976) Précisions minéralogiques sur la davreuxite. Compt. Rendus Acad. Sci. Paris, 283, 295–296 (in French). (3) (1978) Amer. Mineral., 63, 795 (abs. ref. 2). (4) Fransolet, A.-M., K. Abraham, and K. Sahl (1984) Davreuxite: a reinvestigation. Amer. Mineral., 69, 777–782. (5) Sahl, K., P.G. Jones, and G.M. Sheldrick (1984) The crystal structure of davreuxite, MnAl₆Si₄O₁₇(OH)₂. Amer. Mineral., 69, 783–787. All rights reserved. No part of this publication may be reproduced, stored in a retrieval system or transmitted in

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