Crystal Data: Monoclinic. Point Group: 2/m. Crystals prismatic, pseudohexagonal by twinning, to 12 mm ; as crystal intergrowths. Twinning: Triple twins with composition planes (110) and (1 $\overline{1} 0)$; in basal section, twin lamellae in three directions intersect at an angle of $120^{\circ}$.

Physical Properties: Cleavage: Distinct on $\{001\}$. Fracture: Conchoidal. Tenacity: Brittle. Hardness $=6-7 \quad \mathrm{D}($ meas. $)=3.474 \quad \mathrm{D}($ calc. $)=3.47$

Optical Properties: Transparent to translucent. Color: Salmon-pink, pale yellowish red to nearly colorless; in thin section, colorless. Luster: Vitreous, brilliant.
Optical Class: Biaxial (-). Orientation: $X \perp\{001\}$. Dispersion: Perceptible. $\alpha=1.715$ $\beta=1.720 \quad \gamma=1.725 \quad 2 \mathrm{~V}$ (meas.) $=83^{\circ}$

Cell Data: Space Group: $P 2_{1} / n . \quad a=8.098 \quad b=7.613 \quad c=14.065 \quad \beta=90^{\circ} \quad \mathrm{Z}=4$
X-ray Powder Pattern: Harstigen mine, Sweden. (ICDD 17-477). 2.764 (100), 3.56 (40), 2.229 (35), 2.332 (30), 1.420 (30), 2.053 (25), 1.784 (25)

## Chemistry:

|  | $(1)$ | $(2)$ |
| :--- | ---: | :---: |
| $\mathrm{SiO}_{2}$ | 39.77 | 39.77 |
| FeO | 3.87 |  |
| MnO | 26.86 | 31.30 |
| BeO | 17.08 | 16.56 |
| MgO | 0.61 |  |
| CaO | 12.44 | 12.37 |
| Total | 100.63 | 100.00 |

(1) Harstigen mine, Sweden. (2) $\mathrm{CaMn}_{2} \mathrm{Be}_{3}\left(\mathrm{SiO}_{4}\right)_{3}$.

Occurrence: A rare mineral, probably formed during late-stage hydrothermal activity associated with contact metamorphism and metasomatism.

Association: Calcite, hematite.
Distribution: At the Harstigen mine, near Persberg, at Jakobsberg, and at Långban, Värmland, Sweden.

Name: From the Greek for three parts, in allusion to the trilling twinning and associated optical effects.

References: (1) Dana, E.S. (1892) Dana's system of mineralogy, (6th edition), 460.
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