

**Crystal Data:** Orthorhombic. *Point Group:*  $2/m\ 2/m\ 2/m$ . Very rarely as minute crystals; in crystalline masses; in alluvial grains.

**Physical Properties:** Hardness = n.d.  $D(\text{meas.}) = 4.45\text{--}4.48$   $D(\text{calc.}) = [4.28]$

**Optical Properties:** Semitransparent. *Color:* Deep red to black. *Streak:* Dark brown. *Optical Class:* Biaxial.  $\alpha = \text{n.d.}$   $\beta = \text{n.d.}$   $\gamma = \text{n.d.}$   $2V(\text{meas.}) = \text{n.d.}$

**Cell Data:** *Space Group:*  $Pbnm$ .  $a = 4.492(3)$   $b = 9.860(5)$   $c = 2.974(2)$   $Z = 4$

**X-ray Powder Pattern:** Merume River, Guyana.

4.065 (vvs), 2.648 (vs), 2.404 (vs), 2.458 (w), 2.149 (w), 3.314 (vw), 2.546 (vw)

Chemistry:	(1)	(2)
Ti <sub>2</sub> O <sub>3</sub>	0.17	
Al <sub>2</sub> O <sub>3</sub>	6.2	
Fe <sub>2</sub> O <sub>3</sub>	15.1	
Cr <sub>2</sub> O <sub>3</sub>	70.6	89.40
V <sub>2</sub> O <sub>3</sub>	0.64	
H <sub>2</sub> O	6.9	10.60
Total	99.6	100.00

(1) Merume River, Guyana; estimated to contain 30% eskolaite. (2) CrO(OH).

**Polymorphism & Series:** Trimorphous with grimaldiite and guyanaite.

**Occurrence:** In fine-grained intergrowth with other chromium oxide-hydroxide minerals.

**Association:** Eskolaite, grimaldiite, guyanaite, mcconnellite.

**Distribution:** In the basin of the Merume River, Guyana.

**Name:** For Smith Bracewell, formerly Director, British Guyana Geological Survey, who first noted the occurrence.

**Type Material:** The Natural History Museum, London, England, 1979,136.

**References:** (1) Milton, C., D.E. Appleman, M.H. Appleman, E.C.T. Chao, F. Cuttitta, J.I. Dinnin, E.J. Dwornik, B.L. Ingram, and H.J. Rose, Jr. (1976) Merumite, a complex assemblage of chromium minerals from Guyana. U.S. Geol. Surv. Prof. Paper 887, 1–29. (2) (1977) Amer. Mineral., 62, 593 (abs. ref. 1).