

**Vyalsovite****FeS·CaAl(OH)<sub>5</sub>**

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**Crystal Data:** n.d. *Point Group:* n.d. *Twinning:***Physical Properties:** *Cleavage:* *Fracture:* *Tenacity:* Hardness = n.d.  
VHN = D(meas.) = n.d. D(calc.) = n.d.**Optical Properties:** n.d. *Color:* *Streak:* *Luster:**Optical Class:* *Pleochroism:* *Orientation:* *Dispersion:* *Absorption:* $n = \omega = \epsilon = \alpha = \beta = \gamma = 2V(\text{meas.}) = \text{n.d.}$   $2V(\text{calc.}) =$  *Anisotropism:* *Bireflectance:*

R:

R<sub>1</sub>-R<sub>2</sub>:**Cell Data:** *Space Group:* n.d.  $a = b = c = \alpha = \beta = \gamma = Z = \text{n.d.}$ **X-ray Powder Pattern:** n.d.**Chemistry:**

	(1)	(2)	(3)
SiO <sub>2</sub>			
TiO <sub>2</sub>			
ZrO <sub>2</sub>			
Al <sub>2</sub> O <sub>3</sub>			
Fe <sub>2</sub> O <sub>3</sub>			
FeO			
MnO			
MgO			
CaO			
Na <sub>2</sub> O			
K <sub>2</sub> O			
F			
Cl			
H <sub>2</sub> O <sup>+</sup>			
H <sub>2</sub> O <sup>-</sup>			
-O = (F, Cl) <sub>2</sub>			
<hr/>			
Total			

(1)

**Polymorphism & Series:****Mineral Group:****Occurrence:****Association:** n.d.**Distribution:****Name:****Type Material:** n.d.

**References:** (1) Evstigneeva, T.L., A.D. Genkin, S.M. Sandomirskaya, and N.V. Trubkin (1992) Vyalsovite, a new sulfide-hydroxide of iron, calcium, and aluminum. *Amer. Mineral.*, 77, 201-206. All rights reserved. No part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise without the prior written permission of Mineral Data Publishing.