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Crystal Data: Monoclinic. *Point Group:* 2/m. As euhedral crystals, stout prismatic and terminated by steep pyramids, also dominated by pyramidal forms, to 2 cm. Granular to massive in veinlets.

Physical Properties: Cleavage: Perfect on $\{001\}$. Hardness = < 5 D(meas.) = 4.06–4.08 D(calc.) = 4.07 Fluoresces weak pinkish red in LW UV.

Optical Properties: Transparent to translucent. *Color:* Bright pink or red to reddish brown and orange, rarely yellow; black from tarnish or inclusions.

Optical Class: Biaxial (–). Pleochroism: In shades of lavender and pale purple. Orientation: Y = b; $Z \wedge c = 38^{\circ}$. Dispersion: r > v, strong. $\alpha = 1.720-1.724$ $\beta = 1.741-1.742$ $\gamma = 1.746$ $2V(\text{meas.}) = 50^{\circ}-60^{\circ}$

Cell Data: Space Group: $P2_1/a$. a = 8.171(2) b = 5.316(2) c = 11.761(2) $\beta = 95^{\circ}15(5)'$ Z = 4

X-ray Powder Pattern: Franklin, New Jersey, USA. 2.864 (100), 2.957 (90), 1.547 (85), 2.567 (65), 1.412 (65), 2.115 (60), 1.594 (60)

	(1)	(2)	(3)
SiO_2	19.86	19.6	19.27
FeO		0.2	
MnO	20.68	22.7	22.75
ZnO	52.93	50.9	52.20
MgO	0.04	0.4	
CaO	0.93	0.3	
$\rm H_2O^+$	5.77	5.76	5.78
Total	100.21	99.86	100.00

(1) Franklin, New Jersey, USA; average of three analyses. (2) Do.; by electron microprobe, average of eight samples, H_2O by the Penfield method. (3) $MnZn_2SiO_4(OH)_2$.

Occurrence: As seams in massive willemite-franklinite granular ore in a metamorphosed stratiform zinc deposit (Franklin, New Jersey, USA).

Association: Barite, willemite, franklinite, tephroite, pyrochroite, calcite, manganoan garnet, copper.

Distribution: From Franklin and Sterling Hill, Ogdensburg, Sussex Co., New Jersey, USA.

Name: For H.H. Hodgkinson, Assistant Underground Superintendent of the Franklin mine, who discovered the mineral.

Type Material: Harvard University, Cambridge, Massachusetts, 89875, 89880, 89881; National Museum of Natural History, Washington, D.C., USA, 87231.

References: (1) Palache, C. and W.T. Schaller (1913) Hodgkinsonite, a new mineral from Franklin Furnace, New Jersey. J. Wash. Acad. Sci., 3(19), 474–478. (2) Palache, C. (1935) The minerals of Franklin and Sterling Hill, Sussex County, New Jersey. U.S. Geol. Sur. Prof. Paper 180, 108–111. (3) Roberts, W.M.B. and F.M. Quodling (1962) X-ray, optical, and morphological observations on hodgkinsonite from Franklin Furnace. Mineral. Mag., 33, 343–346. (4) Rentzeperis, P.J. (1963) The crystal structure of hodgkinsonite, Zn₂Mn[(OH)₂SiO₄]. Zeits. Krist., 119, 117–138. (5) Dunn, P.J. and R.C. Bostwick (1982) Hodgkinsonite from Franklin and Sterling Hill, New Jersey: a review. Mineral. Record, 13, 229–232. 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.