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Crystal Data: Monoclinic. Point Group: 2/m. Crystals short prismatic along [001]; commonly foliated, fibrous, crystalline granular. Twinning: May twin polysynthetically under pressure.

Physical Properties: Fracture: Conchoidal to uneven. Hardness = 1–2 D(meas.) = 1.591-1.604 D(calc.) = 1.5895 (synthetic). Soluble in H₂O; deliquescent; taste astringent, bitter.

Optical Properties: Semitransparent. *Color:* Colorless to white; colorless in transmitted light. *Luster:* Vitreous to dull.

Optical Class: Biaxial (+). Orientation: X = b; $Y \wedge c = 9.5^{\circ}$. Dispersion: r > v, weak. $\alpha = 1.495$ $\beta = 1.507$ $\gamma = 1.528$ $2V(meas.) = 79^{\circ}24'$

Cell Data: Space Group: C2/m (synthetic). a = 9.8607(2) b = 7.1071(2) c = 6.0737(2) $\beta = 93.758(2)^{\circ}$ Z = 2

X-ray Powder Pattern: Synthetic.

4.095 (100), 2.646 (69), 2.880 (58), 2.732 (39), 2.305 (39), 2.228 (27), 3.553 (26)

Chemistry:

	(1)	(2)	(3)
Mg	11.86	11.5	11.95
Ca		0.9	
Cl	35.04	34.2	34.88
H_2O	[53.10]	[51.4]	53.17
SO_3		2.0	
Total	[100.00]	[100.0]	100.00

(1) Leopoldshall, Germany; H_2O by difference. (2) Stassfurt, Germany; by electron microprobe, H_2O by difference. (3) $MgCl_2 \cdot 6H_2O$.

Occurrence: In saline deposits; probably in part secondary, formed from carnallite.

Association: Carnallite, halite, kieserite.

Distribution: In Germany, from Stassfurt-Leopoldshall, 34 km south of Magdeburg, Saxony-Anhalt; at Vienenburg and Aschersleben, Lower Saxony. From Lake Inder, Kazakhstan.

Name: For Karl Gustav Bischof (1792–1870), German geologist and mineral chemist, University of Bonn, Bonn, Germany.

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