Cadwaladerite

 \odot 2001-2005 Mineral Data Publishing, version 1

Crystal Data: Amorphous. *Point Group:* n.d. Granular and in small masses, embedded in halite.

Physical Properties: Fracture: Conchoidal. Hardness = n.d. D(meas.) = 1.66D(calc.) = n.d. Weakly hygroscopic.

Optical Properties: Transparent to translucent. *Color:* Lemon-yellow. *Luster:* Vitreous. *Optical Class:* Isotropic. n = 1.513, variable.

Cell Data: Space Group: n.d. Z = n.d.

X-ray Powder Pattern: n.d.

Chemisti	:y:			(1)	(2)
			Al_2O_3	29.34	30.25
			CaO	1.60	
			Cl	21.51	21.04
			H_2O^+	26.27	53.45
			H_2O^-	26.81	
			$-\mathbf{O} = \mathbf{Cl}_2$	5.53	4.74
			Total	[100.00]	100.00
(1)	D' / 1	C1 ·1	1 1 4 1 4 10		1 0

(1) Cerro Pintados, Chile; recalculated to 100% after deduction of Na₂O 1.85% as NaCl, K₂O 0.90% as KCl, CaO 0.47% as CaCl₂ and with SO₃ 0.82% as CaSO₄ • 2H₂O. (2) AlCl(OH)₂ • 4H₂O.

Occurrence: In a sulfate deposit, embedded in halite.

Association: Halite, gypsum.

Distribution: On mine dumps at Cerro Pintados, 80 km southeast of Iquique, Tarapacá, Chile.

Name: For Charles Meigs Biddle Cadwalader, formerly President of the Academy of Natural Sciences, Philadelphia, Pennsylvania, USA.

Type Material: Harvard University, Cambridge, Massachusetts, USA, 134143.

References: (1) Palache, C., H. Berman, and C. Frondel (1951) Dana's system of mineralogy, (7th edition), v. II, 77.