

Crystal Data: Orthorhombic, pseudocubic. *Point Group:* $mm2$; $\bar{4}3m$ (pseudocubic). Crystals are pseudotetrahedral {111}, modified by {001}, {110}, and $\{1\bar{1}1\}$, to 2 cm, paramorphous and composed of microscopically twinned aggregates of orthorhombic material inverted from the high-temperature form. *Twining:* Rare as interpenetrant twins on [111] with twin plane {111} (pseudocubic).

Physical Properties: *Fracture:* Subconchoidal to uneven. Hardness = 7 D(meas.) = 3.49(2) D(calc.) = 3.48

Optical Properties: Transparent to opaque. *Color:* Colorless to deep purple, darkening with exposure to sunlight. *Luster:* [Vitreous.]

Optical Class: Biaxial (+). $\alpha = 1.732(1)$ $\beta = 1.737(1)$ $\gamma = 1.744(1)$ $2V(\text{meas.}) = 83(3)^\circ$

Cell Data: *Space Group:* $Pca2_1$. $a = 8.68(1)$ $b = 8.68(1)$ $c = 12.26(1)$ $Z = 4$

X-ray Powder Pattern: Barber's Hill salt dome, Texas, USA.

3.07 (10), 2.74 (6), 2.08 (6), 3.54 (5), 2.17 (5), 1.851 (5), 2.50 (3)

Chemistry:	(1)	(2)	(1)	(2)	
SiO ₂	0.32		CaO	trace	
TiO ₂	trace		Na ₂ O	0.05	
B ₂ O ₃	49.50	50.35	K ₂ O	0.03	
Al ₂ O ₃	0.12		Cl	6.34	7.32
FeO	1.28		H ₂ O	0.87	
MnO	41.87	43.98	—O = Cl ₂	1.39	1.65
MgO	0.05				
			Total	99.04	100.00

(1) Barber's Hill salt dome, Texas, USA; (Mn_{2.90}Fe_{0.09}Mg_{0.01})_{Σ=3.00}B_{7.00}O₁₃Cl_{0.88}.

(2) Mn₃B₇O₁₃Cl.

Occurrence: In brine residues from extraction wells in salt domes.

Association: Halite, anhydrite, gypsum.

Distribution: In the USA, from the Barber's Hill salt dome, Mont Belvieu, Chambers Co., Texas and the Venice salt dome, Plaquemines Parish, Louisiana. In the Jixian Mn-B deposits, Hebei Province, China. From Pomyarka, near Truskarets, Carpathian Mountains, Ukraine.

Name: For the location of the first known occurrence, Chambers Co., Texas, USA.

Type Material: Harvard University, Cambridge, Massachusetts, 107884; National Museum of Natural History, Washington, D.C., USA, 115327.

References: (1) Honea, R.M. and F.R. Beck (1962) Chambersite, a new mineral. Amer. Mineral., 47, 665–671.