Sinjarite  
\[ \text{CaCl}_2 \cdot 2\text{H}_2\text{O} \]

Crystal Data:  Tetragonal.  
*Point Group:* n.d.  
As elongated to rhombic crystals, in granular massive aggregates.

Physical Properties:  
*Cleavage:* Prismatic, good.  
*Hardness:* 1.5  
*D(meas.):* 1.66  
*D(calc.):* [1.60]  
Very hygroscopic.

Optical Properties:  
*Semitransparent.*  
*Color:* Pale pink.  
*Streak:* White.  
*Luster:* Vitreous to resinous.  
*Optical Class:* Uniaxial.  
*n = 1.54*

Cell Data:  
*Space Group:* n.d. (synthetic).  
*a = 7.21  
*c = 5.86  
Z = [2]*

X-ray Powder Pattern:  
Sinjar, Iraq.  
2.82 (100), 3.04 (99), 6.09 (86), 2.96 (71), 2.73 (71), 3.06 (66), 2.36 (51)

Chemistry:  
\[
\begin{array}{c|c|c}
   & (1) & (2) \\
Na & 0.85 & \\
Ca & 25.84 & 27.26 \\
Cl & 46.64 & 48.23 \\
H_2O & 26.55 & 24.51 \\
Total & 99.88 & 100.00 \\
\end{array}
\]

(1) Sinjar, Iraq; averages of several determinations, Na by flame photometer, H\(_2\)O taken as loss on ignition.  
(2) CaCl\(_2\) • 2H\(_2\)O.

Occurrence:  
In a dry stream bed, apparently precipitated from groundwater.

Association:  n.d.

Distribution:  
From near Sinjar, west of Mosul, Iraq.

Name:  
For a town near the occurrence, Sinjar, Iraq.

Type Material:  
Museum of Natural History, University of Mosul, Mosul, Iraq.

References:  