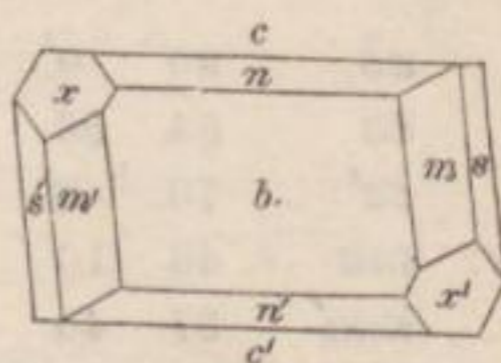


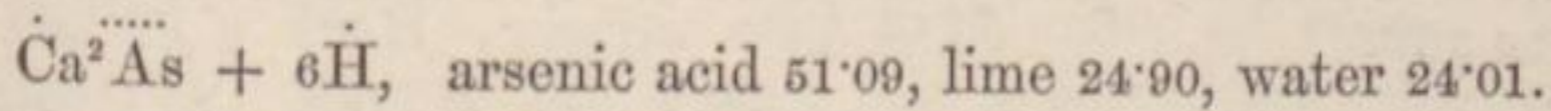
$cb$	$90^{\circ} 0'$	$sb$	$78^{\circ} 33'$
$nb$	$70 34$	$xb$	$69 38$
$nn'$	$141 8$	$mc$	$84 13$
$mb$	$58 42$	$mbc$	$83 14$
$mm'$	$117 24$	$abc$	$65 17$

FIG. 505.



Combinations.  $cnmb$ ,  $xcnmsb$ . The faces  $m$ ,  $s$  striated parallel to their intersection with each other;  $c$ ,  $n$  striated parallel to their intersections with each other. Cleavage.  $b$ , very perfect and easily obtained. Transparent...translucent. Lustre vitreous;  $b$ , pearly. White, inclining to yellow. Streak white. Sectile. Flexible in thin plates.  $H = 2.0 \dots 2.5$ .  $G = 2.64 \dots 2.73$ .

In the matrass yields water. In the outer flame melts into a white enamel. On charcoal in the inner flame emits fumes of arsenic, and melts into a semi-transparent globule. Soluble without effervescence in nitric acid.



Analyses of pharmacolite  $a$  from Wittichen by Klaproth, from Andreasberg  $b$  by John,  $c$  by Turner,  $d$  from Riechelsdorf by Stromeyer,  $e$  from Glücksbrunn by Rammelsberg:—

	$a$	$b$	$c$	$d$	$e$
Arsenic acid . . . . .	50.54	45.68	} 79.01	46.97	51.58
Lime . . . . .	25.00	27.28		24.65	23.59
Magnesia . . . . .	—	—	—	3.22	—
Oxide of cobalt . . . . .	—	—	—	1.00	1.43
Water . . . . .	24.46	23.86	20.99	23.98	23.40

Is found in minute fibrous crystals, botryoidal masses, and earthy, at Joachimsthal in Bohemia, Wittichen in Baden, Andreasberg in the Harz, Riechelsdorf and Bieber in Hessa, Glücksbrunn in Thuringia, Markirchen in Alsace.

337. LIBETHENITE. — Phosphate of copper; Phillips. Cuivre phosphaté; Dufrenoy. Diprismatischer Oliven-Malachit; Mohs. Libethenit; Hausmann, Haidinger.

Prismatic.  $011,010 = 53^{\circ} 50'$ ;  $101,001 = 35^{\circ} 4'$ ;  $110,100 = 46^{\circ} 10'$ .

$a$  100,  $b$  010 cleavage,  $e$  101,  $m$  110,  $t$  120,  $s$  111.  $b$  truncates the edge  $mm'$ ;  $t$  truncates the edge  $bm$ .