mixture of nearly equal parts of carbonate of lime and silicate of alumina and red oxide of iron.

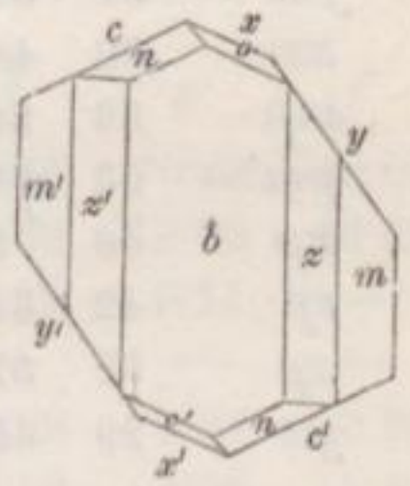
209. RHYACOLITE. — Empyrodoxer Feld-Spath; Mohs. Ryacolith; Hausmann, Haidinger.

Oblique. $101,100 = 65^\circ\,37'{\cdot}3$; $111,010 = 63^\circ\,19'$; $101,001 = 50^\circ\,28'{\cdot}6$.

a 100 twin-face, *b* 010, *c* 001, *n* 021, *x* 101, *y* 201, *o* 111.

bc	90°	0′	*ob*	63°	19′
ab	90	0	*yo*	39	19
ca	116	6	*on*	43	56
xc	50	29	*mo*	56	58
yc	80	28	*oc*	55	21
ym	45	26	*cm′*	67	41
nb	45	16	*xm*	69	8
zb	29	41	*xbm*	65	37
mb	59	41	*ybm*	35	37

FIG. 384.



Combinations. *oxcmb*, *xcnymb*, *oxcnymzb*. Twin crystals. 1. Twin-face *a*. 2. Twin-face *n*. $co = 89^\circ\,28'$. Cleavage. *c*, perfect; *b*, less perfect, yet distinct. Fracture conchoidal. Transparent...translucent. Lustre vitreous. Colourless, white, greyish, yellowish. Streak white. Very brittle. H = 6·0. G = 2·57...2·62.

Before the blowpipe is rather more fusible than felspar, and imparts a yellow colour to the flame. Is decomposed by hydrochloric acid leaving a residue of silica in powder.

$\dot{\ddot{R}}\ddot{S}i + \dddot{\ddot{A}}l\ddot{S}i^2$, where $\dot{R}$ is soda, potash and lime.

Analysis by G. Rose:—

Silica	50·31
Alumina	29·44
Red oxide of iron	0·28
Lime	1·07
Magnesia	0·23
Potash	5·92
Soda	10·56

Is found in small transparent crystals in volcanic matter at the foot of Vesuvius, in imbedded crystals in the lavas of the Eiffel, and at the lake of Laach.