ANALYSIS OF MINERALS MOST ABUNDANT IN THE VOLCANIC AND HYPOGENE ROCKS.

	Silica	Alumina	Magnesia.	Lime.	Potash.	Soda.	Iron Oxide.	Manganese.	Remainder.
Actinolite (Bergman)	64·	- -	22·	- -	- -	- -	3·		
Augite, black, of volcanic rocks (Klaproth).	48·00	5·00	8·75	21·00	- -	- -	10·80	1·00	
Carbonate of lime (Biot)	- -	- -	- -	56·33	- -	- -	- -	- -	43·05 C.
Chiastolite (Landgrabe)	68·50	30·11	1·13	- -	- -	- -	- -	- -	0·27 W.
Chlorite (Kobell)	31·14	17·14	34·40	- -	- -	- -	3·85	0·53	12·20 W.
——— (Delesse)	31·07	15·47	19·14	0·46	- -	- -	19·99	traces	11·55 W.
——— of St. Gotthardt (Varrentrapp).	25·37	28·79	17·09	- -	- -	- -	28·79	- -	8·96 W.
Diallage of euphotide (Delesse)	49·30	5·50	17·61	15·43	- -	- -	9·43	0·51	0·85 W. 0·30 Ch.
——— of bronzite from the Tyrol (Köhler).	56·81	2·07	29·68	2·20	- -	- -	8·46	0·62	0·22 W.
Epidote (Vauquelin)	37·	21·	- -	15·	- -	- -	24·	1·5	
Felspar, common (Rose)	66·75	17·5	- -	1·25	12·	- -	0·75		
——— (Delesse)	64·91	19·16	0·65	0·78	11·07	2·49	traces		
——— Albite (Rose)	68·84	20·53	- -	a trace	- -	9·12			
——— of a porphyry from the Vosges (Delesse).	71·50	15·50	0·50	1·73	3·16	5·94	traces		
——— Andesine, of syenite from the Vosges (Delesse).	58·91	24·59	0·40	4·01	2·53	7·59	0·99		
——— Labradorite (Klaproth)	55·75	26·5	- -	11·	- -	4·	1·25	- -	0·5 W.
——— of Verde antique (Delesse).	53·20	27·31	1·01	8·02	3·40	3·52	1·03		
——— Oligoclase, of protogine from Mont Blanc (Delesse).	63·25	23·92	0·32	3·23	2·31	6·88	traces		
——— Oligoclase of Arendal (Scheerer).	62·87	22·91	traces	3·61	1·39	8·16	1·89		
Garnet (Klaproth)	35·75	27·25	- -	- -	- -	- -	36·	0·25	
——— (Phillips)	43·	16·	- -	20·	- -	- -	16·		
Hornblende (Klaproth)	42·	12·	2·25	11·	a trace	- -	30·	0·25	
——— (Bonsdorff)	45·69	12·18	18·79	13·85	- -	- -	7·32	0·22	1·5 F.
——— of orbicular diorite from Corsica (Delesse).	47·88	8·23	18·40	7·05	0·14	0·65	16·15	traces	1·50 loss.
Hypersthene (Klaproth)	54·25	2·25	14·	1·5	- -	- -	24·5	a trace	1· W.
Leucite (Klaproth)	53·75	24·62	- -	- -	21·35				
Malacolite or Sahlite, green (Delesse).	53·42	1·38	14·95	21·72	- -	- -	8·53		
Mesotype (Gehlen)	51·64	19·70	- -	1·61	- -	15·09	- -	- -	9·83 W.
——— (Berzelius)	46·80	26·50	- -	9·87	- -	5·40	- -	- -	12·30 W.
Mica (Klaproth)	42.5	11·5	9·	- -	10·	- -	22·	2·	
—— (Vauquelin)	50·	35·	- -	1·33	- -	- -	7·		
—— black (H. Rose)	40·00	12·67	0·63	- -	5·61	- -	19·03 S.	15·70	1·63 T. 2·00 F.
—— green, of protogine (Delesse)	41·22	13·92	4·70	2·58	6·05	1·40	21·31 S. 5·03 P.	1·09	1·58 F. 0·90 loss.
—— reddish, of crystalline limestone (Delesse).	37·54	19·80	30·32	0·70	7·17	1·00	1·61	0·10	0·22 F. 1·51 loss. 3.59 L.
—— rose-colored, of granite (C. Gmelin).	49·06	33·61	0·41	- -	4·19	- -	- -	1·40	3·28 F. 0·11 P. 4·18 loss.
—— white, of pegmatite (Delesse)	46·23	33·03	2·10	- -	8·87	1·45	3·48 S.	traces	4·12
Olivine (Berzelius)	40·86	- -	47·35	- -	- -	- -	11·72	0·43	
——— (Klaproth)	50·	- -	38·5	0·25	- -	- -	12·		
——— in meteoric stones (Klaproth).	41·0	- -	38·5	- -	- -	- -	18·5		
Serpentine (Hisinger)	43·07	0·25	40·37	0·5	- -	- -	1·17	- -	12·45 W.
——— asbestiform (Delesse)	41·58	0·42	42·61	- -	- -	- -	1·69	- -	13·70 W.
——— common (Delesse)	40·83	0·92	37·98	1·50	- -	- -	7·39	traces	10·70 W.
Steatite (Delesse)	64·85	- -	28·53	- -	- -	- -	1·40	- -	5·22 W.
——— (Vauquelin)	64·	- -	22·	- -	- -	- -	8·	- -	6· W.
Talc, pure (Delesse)	61·75	- -	31·68	- -	- -	- -	1·70	- -	3·83 W.
—— (Klaproth)	61·75	- -	30·5	- -	2·75	- -	2.5		
Tourmaline or Schorl, black, of granite from Devon (Rammelsberg).	37·00	33·09	2·58	0·50	0·65	1·39	9·33 S. 6·19 P.	-	0·12 P. 7·66 B. 2·09 loss. 1·49 F. 0·22 Ph. 3·56 B.
——— red, of granite from Moravia (Rammelsberg).	41·16	41·83	0·61	- -	2·17	1·37	- -	97· S.	0·41 L. 2·70 F. 3·77 loss.
Tourmaline (Gmelin)	35·48	34·75	4·68	- -	0·48	1·75	17·44	1·89	4·02 B.

In the last column of the above Table, the following signs are used: B. Boracic acid, C. Carbonic acid Ch. Oxide of Chrome, F. Fluoric acid, L. Lithine, P. Phosphoric acid, T. Oxide of Titanium, W. Water In the 7th column of numbers, P. means Protoxide, and S. Sesquioxide.