



Separation of the oxides of lead and bismuth

M. Liebig

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1832.	Stars.	Mag.	Apparent Place.			Semidiameter.		Hor. Par.
			Right Ascens.		Declin. North.	In time.	In arc.	
Oct. 26	51 Tauri	6.7	4 ^h 8 ^m 29,99	21° 9'	47,6			
	* — (c)	8	16 24,25	21 4	57,4			
	Mars ²	S	17 13,06	22 2	44,4	0.647	9",05	16",20
	27 51 Tauri	6.7	4 8 30,01	21 9	47,6			
	Mars ²	N	16 20,15	21 3	32,1	.650	9,10	16,28
	* Tauri (c)	8	16 24,27	21 4	57,5			
	28 51 Tauri	6.7	4 8 30,03	21 9	47,6			
	Mars ²	S	15 23,73	21 4	11,9	.653	9,14	16,35
	* Tauri (c)	8	16 24,29	21 4	57,5			
	29 51 Tauri	6.7	4 8 30,05	21 9	47,7			
	Mars ²	N	14 23,89	21 4	43,9	.656	9,18	16,42
	* Tauri (c)	8	16 24,31	21 4	57,6			
Nov. 1	30 51 Tauri	6.7	4 8 30,07	21 9	47,8			
	Mars ²	S	13 20,74	21 5	7,8	.659	9,22	16,49
	* Tauri (c)	8	16 24,33	21 4	57,6			
	31 51 Tauri	6.7	4 8 30,09	21 9	47,8			
	Mars ²	N	12 14,38	21 5	23,8	.661	9,26	16,56
	A ¹ Tauri	5	3 54 49,28	21 37	1,3	.664	9,29	16,62
	Mars ²	N	4 11 4,93	21 5	31,7			
	2 A ¹ Tauri	5	3 54 49,30	21 37	1,4	.666	9,32	16,67
	Mars ²	S	4 9 52,50	21 5	31,4			
	3 A ¹ Tauri	5	3 54 49,31	21 37	1,4	.668	9,35	16,72
	Mars ²	N	4 8 37,25	21 5	22,9			
	4 A ¹ Tauri	5	3 54 49,33	21 37	1,5	.670	9,38	16,77
	Mars ²	S	4 7 19,30	21 5	6,2			
	5 A ¹ Tauri	5	3 54 49,35	21 37	1,5	.671	9,41	16,81
	Mars ²	N	4 5 58,81	21 4	41,2			
	6 A ¹ Tauri	5	3 54 49,36	21 37	1,6	.673	9,43	16,84
	Mars ²	S	4 4 35,92	21 4	7,8			
	7 A ¹ Tauri	5	3 54 49,38	21 37	1,6	.674	9,45	16,87
	Mars ²	N	4 3 10,81	21 3	26,3			
	53 Tauri	6.7	9 35,25	20 43	49,2			

SEPARATION OF THE OXIDES OF LEAD AND BISMUTH.

BY M. LIEBIG.

When nitrate of lead or of bismuth is boiled with carbonate of lime, magnesia, or barytes, these salts are decomposed, and the oxides are so completely precipitated that hydrosulphuret of ammonia shows no traces of them in the solution. Carbonate of lime, when added to a cold solution of these metals, precipitates only the oxide of bismuth.

Several methods have been proposed for separating the lead which is contained in the bismuth of commerce; but carbonate of lime, used in the mode now stated, is preferable to them.—*Ann. de Chim. et de Phys.* tom. xlviii. p. 290.