



FIG. 2. Plot of  $-(\partial p/\partial v)$  vs. pressure in atm for the Swenson lithium data at  $4.2^\circ\text{K}$ .  $\circ$  Swenson experimental values. — least squares line obtained from the Swenson experimental values.

Table 1. Tait constants of the alkali metals

Metal	Data	Temp.	$J\text{ cm}^3$	$L, \text{ kg/cm}^2$	Comments
Lithium	Br I	Room	0.13135	152092.0	
	Br II	Room	0.38805	23769.0	
	Br III	Room	0.40657	33561.6	
	Br II-Br III	Room	0.37210	24211.7	<i>best value at Room Temp.</i>
	Swenson	$4.2^\circ\text{K}$	0.23646	17543.8 atm	1st 3 pts. omitted
Sodium	Br I	Room	0.25933	24612.2	
	Br II	Room	0.18222	10313.8	
	Br III	Room	0.21390	28094.1	
	Br II-Br III	Room	0.18556	14416.8	<i>best value at Room Temp.</i>
	Swenson	$4.2^\circ\text{K}$	0.20303	15025.0 atm	1st 3 pts. omitted
Potassium	Br I	Room	0.32762	21792.7	
	Br II	Room	0.18413	3455.65	
	Br III	Room	0.13680	-6828.0	<i>best value at Room Temp.</i>
	Br II-Br III	Room	0.14521	-2911.1	
	Swenson	$4.2^\circ\text{K}$	0.21976	7363.7 atm	1st 3 pts. omitted
Rubidium	Br I	Room	0.44719	73493.8	
	Br II	Room	0.10566	2912.5	
	Br III	Room	0.10839	6626.7	
	Br II-Br III	Room	0.10446	3660.75	<i>best value at Room Temp.</i>
	Swenson	$4.2^\circ\text{K}$	0.10097	4221.7 atm	1st 3 pts. omitted
Cesium	Low pressure				
	0-23,300 $\text{kg/cm}^2$	Room	0.11229	5453.45	
	Med. pressure				
	23300-40000 $\text{kg/cm}^2$	Room	0.10301	-36.138	
	High pressure				
50000-100,000 $\text{kg/cm}^2$	Room	0.01856	-39421.8		
Swenson	$4.2^\circ\text{K}$	0.10590	4466.95 atm	1st 3 pts. omitted	