

Table 17.7 from (1977AJ02):  
States of  $^{17}\text{O}$  from  $^{12}\text{C}(^7\text{Li}, \text{d})^{17}\text{O}$ ,  $^{13}\text{C}(^6\text{Li}, \text{d})^{17}\text{O}$  and  $^{13}\text{C}(^7\text{Li}, \text{t})^{17}\text{O}$  <sup>a</sup>

$^{17}\text{O}^*$ (MeV)	$\sigma^b$ (mb)	$\sigma^c$ (mb)	$d\sigma/d\Omega$ (in $\mu\text{b}/\text{sr}$ ) <sup>d</sup>		$J^e$
			( $^6\text{Li}, \text{d}$ )	( $^7\text{Li}, \text{t}$ )	
0	0.67	0.83	105	75	$\frac{5}{2}$
0.87	0.33	0.32	180	92	$\frac{1}{2}$
3.06	1.05	0.50	560	750	$\frac{1}{2}$
3.84	1.83	1.24	340	1400	$\frac{5}{2}$
4.55	2.02	0.76	285	1350	$\frac{3}{2}$
5.08	0.72		180	250	
5.22	1.87	2.40	245	230	$\frac{7}{2}$
5.70	2.69	1.93	230	530	
5.73					
5.87					
	1.10	1.22			$\frac{5}{2} + \frac{1}{2}$
5.94					
6.86	1.30	1.40	92	125	$\frac{7}{2}$
6.97	1.79	1.20	200	320	$\frac{5}{2}$
7.17 + 7.20	2.62	1.22	350	1050	$\frac{5}{2}$
7.38 + 7.39	4.52	1.96	720	2000	$\frac{9}{2}$
7.58	1.67	2.06	98	310	$\frac{9}{2}$
7.69	3.47	2.89	620	1100	$\frac{3}{2} + \frac{7}{2} + \frac{3}{2}$
7.76 $\pm$ 0.02			f	f	$(\frac{11}{2})^f$
8.41	7.52	4.39	940	2400	$\frac{5}{2} + \frac{9}{2} + \frac{5}{2}$
8.47					
8.51					
8.90	8.85	3.92			$\frac{3}{2} + \frac{7}{2} + \frac{7}{2}$
8.97					
9.15 + 9.19	4.26	2.63			
9.49		1.65			
9.72 + 9.78		2.51			

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$^{17}\text{O}^*$ (MeV)	$\sigma$ <sup>b</sup> (mb)	$\sigma$ <sup>c</sup> (mb)	$d\sigma/d\Omega$ (in $\mu\text{b}/\text{sr}$ ) <sup>d</sup>		$J$ <sup>e</sup>
			( $^6\text{Li}, \text{d}$ )	( $^7\text{Li}, \text{t}$ )	
9.87 } 9.88 }		3.03			
10.77		3.44			
11.91		4.72			

<sup>a</sup> See also [Table 17.8 in \(1971AJ02\)](#).

<sup>b</sup> From integration over angular distributions of deuteron groups from ( $^7\text{Li}, \text{d}$ ) (1971SC21).

<sup>c</sup> From integration over angular distributions of triton groups (1971SC21).

<sup>d</sup> (1970BE31):  $d\sigma/d\Omega$  taken at maximum of angular distribution. See also [Table 17.8 in \(1971AJ02\)](#) for  $d\sigma/d\Omega$  at 30 for other states.

<sup>e</sup> (1971SC21).

<sup>f</sup> Angular distribution obtained by (1970BE31).