

## Standard Spectral Data for UV-Vis Instrument Calibration \*

Standard solution: 0.0400 g/L K<sub>2</sub>CrO<sub>4</sub> in 0.05 M KOH(aq); 1cm path length, 25°C

$\lambda$ [nm]	% Transmission	Absorption	Actual Absorption
220	35.8	0.446	
230	67.4	0.171	
240	50.7	0.295	
250	31.9	0.496	
260	23.3	0.633	
275	17.5	0.757	
290	37.3	0.428	
300	70.9	0.149	
315	90.0	0.046	
330	71.0	0.149	
340	48.3	0.316	
350	27.6	0.559	
360	14.8	0.830	
370	10.3	0.987	
375	10.2	0.991	
390	20.2	0.695	
400	40.2	0.396	
420	75.1	0.124	
440	88.2	0.054	
460	96.0	0.018	
480	99.1	0.004	
500	100.0	0.000	

\* A. J. Gordon, R. A. Ford, *The Chemists Companion – A Handbook of Practical Data, Techniques, and References*, J. Wiley & Sons, New York, 1972.