

NIST Atomic Spectra Database Lines Data

N I: 147 Lines of Data Found

Z = 7, N isoelectronic sequence

Example of how to reference these results:
Kramida, A., Ralchenko, Yu., Reader, J., and NIST ASD Team (2015). *NIST Atomic Spectra Database* (ver. 5.3), [Online]. Available: <http://physics.nist.gov/asd> [2015, December 7]. National Institute of Standards and Technology, Gaithersburg, MD.
[BibTex Citation](#) (new window)

Wavelength in: vacuum below 200 nm, air between 200 and 2000 nm, vacuum above 2000 nm
Highest relative intensity: 920
Some data for neutral and singly-charged ions are available in the [Handbook of Basic Atomic Spectroscopic Data](#)

Primary data sources			Query NIST Bibliographic Databases for N I (new window)	
Energy Levels:	Moore 1993		N I Energy Levels	
Lines:	Reader et al. 1980		N I Line Wavelengths and Classification	
Transition Probabilities:	Wiese et al. 1996 , Wiese and Fuhr 2007		N I Transition Probabilities	

Observed Wavelength Vac (nm)	Ritz Wavelength Vac (nm)	Rel. Int. (?)	A_{ki} (s ⁻¹)	Acc.	E_i (cm ⁻¹)	E_k (cm ⁻¹)	Lower Level Conf., Term, J		Upper Level Conf., Term, J		Type	TP Ref.	Line Ref.
64.750		140											L3513
69.270		350											L3513
88.567		90											L3513
90.9697	90.9697	90	2.93e+07	D+	0.000	- 109 926.661	2s ² 2p ³	4S° 3/2	2s ² 2p ² (3P)5s	4P 5/2		T5723LS	L3513
91.0278	91.0278	80	2.92e+07	D+	0.000	- 109 856.520	2s ² 2p ³	4S° 3/2	2s ² 2p ² (3P)5s	4P 3/2		T5723LS	L3513
91.0645	91.0645	40	2.92e+07	D+	0.000	- 109 812.233	2s ² 2p ³	4S° 3/2	2s ² 2p ² (3P)5s	4P 1/2		T5723LS	L3513
95.3415	95.3415	90	1.90e+08	B	0.000	- 104 886.10	2s ² 2p ³	4S° 3/2	2s ² 2p ² (3P)3d	4P 1/2		T7370	L3513
95.3655	95.3655	100	1.81e+08	B	0.000	- 104 859.73	2s ² 2p ³	4S° 3/2	2s ² 2p ² (3P)3d	4P 3/2		T7370	L3513
95.3970	95.3970	130	1.62e+08	B	0.000	- 104 825.110	2s ² 2p ³	4S° 3/2	2s ² 2p ² (3P)3d	4P 5/2		T7370	L3513
96.3990	96.3990	130	5.94e+07	A	0.000	- 103 735.48	2s ² 2p ³	4S° 3/2	2s ² 2p ² (3P)4s	4P 5/2		T7370	L3513
96.4626	96.4626	115	5.66e+07	A	0.000	- 103 667.16	2s ² 2p ³	4S° 3/2	2s ² 2p ² (3P)4s	4P 3/2		T7370	L3513
96.5041	96.5041	70	5.52e+07	A	0.000	- 103 622.51	2s ² 2p ³	4S° 3/2	2s ² 2p ² (3P)4s	4P 1/2		T7370	L3513
106.7614	106.7614	90	3.53e+07	C	19 224.464	- 112 891.238	2s ² 2p ³	2D° 5/2	2s ² 2p ² (3P)5d	2F 7/2		u18,LS	L3513
106.8612	106.8612	60	3.28e+07	C	19 233.177	- 112 812.518	2s ² 2p ³	2D° 3/2	2s ² 2p ² (3P)5d	2F 5/2		u18,LS	L3513
109.7237	109.7237	175	6.35e+07	C	19 224.464	- 110 362.462	2s ² 2p ³	2D° 5/2	2s ² 2p ² (3P)4d	2F 7/2		u18,LS	L3513
109.8095		115											L3513
109.8260	109.8260	115	5.91e+07	C	19 233.177	- 110 286.305	2s ² 2p ³	2D° 3/2	2s ² 2p ² (3P)4d	2F 5/2		u18,LS	L3513
110.0360	110.0360	105	3.60e+07	D+	19 224.464	- 110 103.834	2s ² 2p ³	2D° 5/2	2s ² 2p ² (3P)5s	2P 3/2		u18,LS	L3513
110.0465	110.0465	40	4.00e+06	D+	19 233.177	- 110 103.834	2s ² 2p ³	2D° 3/2	2s ² 2p ² (3P)5s	2P 3/2		u18,LS	L3513
110.1291	110.1291	90	3.99e+07	D+	19 233.177	- 110 035.720	2s ² 2p ³	2D° 3/2	2s ² 2p ² (3P)5s	2P 1/2		u18,LS	L3513
113.4165	113.4165	360	1.51e+08	B	0.000	- 88 170.570	2s ² 2p ³	4S° 3/2	2s2p ⁴	4P 1/2		T7370	L3513
113.4415	113.4415	385	1.49e+08	B	0.000	- 88 151.170	2s ² 2p ³	4S° 3/2	2s2p ⁴	4P 3/2		T7370	L3513
113.4980	113.4980	410	1.44e+08	B	0.000	- 88 107.260	2s ² 2p ³	4S° 3/2	2s2p ⁴	4P 5/2		T7370	L3513
114.365		105											L3513
116.3884	116.3884	130	3.25e+07	B	19 224.464	- 105 143.710	2s ² 2p ³	2D° 5/2	2s ² 2p ² (3P)3d	2D 5/2		T7370	L3513
116.4206	116.4206	60	2.98e+06	B	19 224.464	- 105 119.880	2s ² 2p ³	2D° 5/2	2s ² 2p ² (3P)3d	2D 3/2		T7370	L3513
116.4325	116.4325	105	2.82e+07	B	19 233.177	- 105 119.880	2s ² 2p ³	2D° 3/2	2s ² 2p ² (3P)3d	2D 3/2		T7370	L3513

116.7448	116.7448	270	1.10e+08	A	19 224.464	-	104 881.350	$2s^22p^3$	$^2D^{\circ} \ ^5/2$	$2s^22p^2(^3P)3d \ ^2F \ ^7/2$		T7370	L3513
116.8334	116.8334	105	1.24e+07	B+	19 233.177	-	104 825.110	$2s^22p^3$	$^2D^{\circ} \ ^3/2$	$2s^22p^2(^3P)3d \ ^4P \ ^5/2$		T7370	L3513
116.8417	116.8417	60	3.38e+06	A	19 224.464	-	104 810.360	$2s^22p^3$	$^2D^{\circ} \ ^5/2$	$2s^22p^2(^3P)3d \ ^2F \ ^5/2$		T7370	L3513
116.8536	116.8536	195	9.32e+07	A	19 233.177	-	104 810.360	$2s^22p^3$	$^2D^{\circ} \ ^3/2$	$2s^22p^2(^3P)3d \ ^2F \ ^5/2$		T7370	L3513
117.6510	117.6510	230	8.52e+07	B+	19 224.464	-	104 221.630	$2s^22p^3$	$^2D^{\circ} \ ^5/2$	$2s^22p^2(^3P)4s \ ^2P \ ^3/2$		T7370	L3513
117.6630	117.6630	105	9.91e+06	B+	19 233.177	-	104 221.630	$2s^22p^3$	$^2D^{\circ} \ ^3/2$	$2s^22p^2(^3P)4s \ ^2P \ ^3/2$		T7370	L3513
117.7695	117.7695	195	1.03e+08	B+	19 233.177	-	104 144.820	$2s^22p^3$	$^2D^{\circ} \ ^3/2$	$2s^22p^2(^3P)4s \ ^2P \ ^1/2$		T7370	L3513
119.9550	119.9550	410	4.07e+08	A	0.000	-	83 364.620	$2s^22p^3$	$^4S^{\circ} \ ^3/2$	$2s^22p^2(^3P)3s \ ^4P \ ^5/2$		T7370	L3513
120.0223	120.0223	385	4.03e+08	A	0.000	-	83 317.830	$2s^22p^3$	$^4S^{\circ} \ ^3/2$	$2s^22p^2(^3P)3s \ ^4P \ ^3/2$		T7370	L3513
120.0710	120.0710	360	4.00e+08	A	0.000	-	83 284.070	$2s^22p^3$	$^4S^{\circ} \ ^3/2$	$2s^22p^2(^3P)3s \ ^4P \ ^1/2$		T7370	L3513
122.5026	122.5026	175	4.41e+07	C	28 839.306	-	110 470.244	$2s^22p^3$	$^2P^{\circ} \ ^3/2$	$2s^22p^2(^3P)4d \ ^2D \ ^5/2$		u18,LS	L3513
122.537	122.5368	160	3.67e+07	C	28 838.920	-	110 447.032	$2s^22p^3$	$^2P^{\circ} \ ^1/2$	$2s^22p^2(^3P)4d \ ^2D \ ^3/2$		u18,LS	L3513
122.841	122.8407	130	2.70e+07	D+	28 838.920	-	110 245.183	$2s^22p^3$	$^2P^{\circ} \ ^1/2$	$2s^22p^2(^3P)4d \ ^2P \ ^1/2$		u18,LS	L3513
122.879	122.8791	160	3.38e+07	D+	28 839.306	-	110 220.107	$2s^22p^3$	$^2P^{\circ} \ ^3/2$	$2s^22p^2(^3P)4d \ ^2P \ ^3/2$		u18,LS	L3513
124.3179	124.3179	360	3.22e+08	A	19 224.464	-	99 663.427	$2s^22p^3$	$^2D^{\circ} \ ^5/2$	$2s^22p^2(^1D)3s \ ^2D \ ^5/2$		T7370	L3513
124.3306	124.3306	315	3.10e+08	A	19 233.177	-	99 663.912	$2s^22p^3$	$^2D^{\circ} \ ^3/2$	$2s^22p^2(^1D)3s \ ^2D \ ^3/2$		T7370	L3513
131.0540	131.0540	290	7.68e+07	B	28 839.306	-	105 143.710	$2s^22p^3$	$^2P^{\circ} \ ^3/2$	$2s^22p^2(^3P)3d \ ^2D \ ^5/2$		T7370	L3513
131.095	131.0950	250	1.75e+07	B	28 839.306	-	105 119.880	$2s^22p^3$	$^2P^{\circ} \ ^3/2$	$2s^22p^2(^3P)3d \ ^2D \ ^3/2$		T7370	L3513
131.900	131.8998	230	4.59e+07	B+	28 838.920	-	104 654.030	$2s^22p^3$	$^2P^{\circ} \ ^1/2$	$2s^22p^2(^3P)3d \ ^2P \ ^1/2$		T7370	L3513
131.968	131.9676	315	5.76e+07	B+	28 839.306	-	104 615.470	$2s^22p^3$	$^2P^{\circ} \ ^3/2$	$2s^22p^2(^3P)3d \ ^2P \ ^3/2$		T7370	L3513
132.657	132.6571	115	6.71e+06	B	28 839.306	-	104 221.630	$2s^22p^3$	$^2P^{\circ} \ ^3/2$	$2s^22p^2(^3P)4s \ ^2P \ ^3/2$		T7370	L3513
132.792	132.7917	115	9.47e+06	B	28 838.920	-	104 144.820	$2s^22p^3$	$^2P^{\circ} \ ^1/2$	$2s^22p^2(^3P)4s \ ^2P \ ^1/2$		T7370	L3513
141.194	141.1939	360	1.01e+07	A	28 839.306	-	99 663.912	$2s^22p^3$	$^2P^{\circ} \ ^3/2$	$2s^22p^2(^1D)3s \ ^2D \ ^3/2$		T7370	L3513
149.2625	149.2625	700	3.11e+08	B+	19 224.464	-	86 220.510	$2s^22p^3$	$^2D^{\circ} \ ^5/2$	$2s^22p^2(^3P)3s \ ^2P \ ^3/2$		T7370	L3513
149.2820	149.2820	490	3.26e+07	B+	19 233.177	-	86 220.510	$2s^22p^3$	$^2D^{\circ} \ ^3/2$	$2s^22p^2(^3P)3s \ ^2P \ ^3/2$		T7370	L3513
149.4675	149.4675	640	3.46e+08	B+	19 233.177	-	86 137.350	$2s^22p^3$	$^2D^{\circ} \ ^3/2$	$2s^22p^2(^3P)3s \ ^2P \ ^1/2$		T7370	L3513
174.2729	174.2731	775	1.05e+08	B	28 839.306	-	86 220.510	$2s^22p^3$	$^2P^{\circ} \ ^3/2$	$2s^22p^2(^3P)3s \ ^2P \ ^3/2$		T7370	L3513
174.5252	174.5249	700	8.35e+07	B	28 838.920	-	86 137.350	$2s^22p^3$	$^2P^{\circ} \ ^1/2$	$2s^22p^2(^3P)3s \ ^2P \ ^1/2$		T7370	L3513
Observed Wavelength Air (nm)	Ritz Wavelength Air (nm)	Rel. Int. (?)	A_{ki} (s ⁻¹)	Acc.	E_i (cm ⁻¹)		E_k (cm ⁻¹)	Lower Level Conf., Term, J		Upper Level Conf., Term, J	Type	TP Ref.	Line Ref.
409.994	409.9943	140	3.48e+06	C+	86 137.350	-	110 521.050	$2s^22p^2(^3P)3s \ ^2P \ ^1/2$		$2s^22p^2(^1D)3p \ ^2D^{\circ} \ ^3/2$		T6340	L3513
410.995	410.9949	185	3.90e+06	C+	86 220.510	-	110 544.850	$2s^22p^2(^3P)3s \ ^2P \ ^3/2$		$2s^22p^2(^1D)3p \ ^2D^{\circ} \ ^5/2$		T6340	L3513
484.738		180											L3513
491.494	491.4940	160	8.08e+05	B	86 137.350	-	106 477.800	$2s^22p^2(^3P)3s \ ^2P \ ^1/2$		$2s^22p^2(^3P)4p \ ^2S^{\circ} \ ^1/2$		T5475n	L3513
493.512	493.5117	210	1.76e+06	B	86 220.510	-	106 477.800	$2s^22p^2(^3P)3s \ ^2P \ ^3/2$		$2s^22p^2(^3P)4p \ ^2S^{\circ} \ ^1/2$		T5475n	L3513
495.023		160											L3513
496.398		350											L3513
528.120	528.1204	185	2.45e+05	C	88 107.260	-	107 037.069	$2s2p^4 \ ^4P \ ^5/2$		$2s^22p^2(^3P)4p \ ^4P^{\circ} \ ^5/2$		T5475	L3513
529.268		140											L3513
575.250	575.2499	700	1.06e+06	C	95 532.150	-	112 911.079	$2s^22p^2(^3P)3p \ ^4P^{\circ} \ ^5/2$		$2s^22p^2(^3P)5d \ ^4D \ ^7/2$		u18,LS	L3513
576.475		240											L3513
582.954		265											L3513
585.404		235											L3513

599.943	599.9431	160	3.64e+06	C+	93	581.550	-	110	245.183	$2s^22p^2(^3P)3p$	$^2S^\circ$	$^1/2$	$2s^22p^2(^3P)4d$	2P	$^1/2$		T6340	L3513
600.847	600.8473	210	3.58e+06	C+	93	581.550	-	110	220.107	$2s^22p^2(^3P)3p$	$^2S^\circ$	$^1/2$	$2s^22p^2(^3P)4d$	2P	$^3/2$		T6340	L3513
641.165	641.1648	185	7.86e+05	C	94	793.490	-	110	385.795	$2s^22p^2(^3P)3p$	$^4D^\circ$	$^3/2$	$2s^22p^2(^3P)4d$	4D	$^1/2$		u18,LS	L3513
642.064	642.0641	210	8.97e+05	C	94	830.890	-	110	401.356	$2s^22p^2(^3P)3p$	$^4D^\circ$	$^5/2$	$2s^22p^2(^3P)4d$	4D	$^5/2$		u18,LS	L3513
642.302	642.3072	210	5.47e+05	C	94	830.890	-	110	395.463	$2s^22p^2(^3P)3p$	$^4D^\circ$	$^5/2$	$2s^22p^2(^3P)4d$	4D	$^3/2$		u18,LS	L3513
642.832		210																L3513
643.768		185																L3513
644.094	644.0938	235	1.33e+06	C	94	881.820	-	110	403.220	$2s^22p^2(^3P)3p$	$^4D^\circ$	$^7/2$	$2s^22p^2(^3P)4d$	4D	$^7/2$		u18,LS	L3513
645.790		185																L3513
646.844		300																L3513
648.171	648.1706	265	3.43e+06	C	94	770.880	-	110	194.654	$2s^22p^2(^3P)3p$	$^4D^\circ$	$^1/2$	$2s^22p^2(^3P)4d$	4F	$^3/2$		u18,LS	L3513
648.270	648.2699	360	4.90e+06	C	94	881.820	-	110	303.233	$2s^22p^2(^3P)3p$	$^4D^\circ$	$^7/2$	$2s^22p^2(^3P)4d$	4F	$^9/2$		u18,LS	L3513
648.375	648.3753	300	3.67e+06	C	94	793.490	-	110	212.396	$2s^22p^2(^3P)3p$	$^4D^\circ$	$^3/2$	$2s^22p^2(^3P)4d$	4F	$^5/2$		u18,LS	L3513
648.480	648.4808	325	4.20e+06	C	94	830.890	-	110	247.288	$2s^22p^2(^3P)3p$	$^4D^\circ$	$^5/2$	$2s^22p^2(^3P)4d$	4F	$^7/2$		u18,LS	L3513
649.122	649.1222	160	1.37e+06	C	94	793.490	-	110	194.654	$2s^22p^2(^3P)3p$	$^4D^\circ$	$^3/2$	$2s^22p^2(^3P)4d$	4F	$^3/2$		u18,LS	L3513
649.954	649.9518	210	1.18e+06	C	94	830.890	-	110	212.396	$2s^22p^2(^3P)3p$	$^4D^\circ$	$^5/2$	$2s^22p^2(^3P)4d$	4F	$^5/2$		u18,LS	L3513
650.631	650.6302	185	6.91e+05	C	94	881.820	-	110	247.288	$2s^22p^2(^3P)3p$	$^4D^\circ$	$^7/2$	$2s^22p^2(^3P)4d$	4F	$^7/2$		u18,LS	L3513
662.254	662.2543	185	7.93e+05	D+	94	830.890	-	109	926.661	$2s^22p^2(^3P)3p$	$^4D^\circ$	$^5/2$	$2s^22p^2(^3P)5s$	4P	$^5/2$		u18,LS	L3513
663.694	663.6938	185	1.40e+06	D+	94	793.490	-	109	856.520	$2s^22p^2(^3P)3p$	$^4D^\circ$	$^3/2$	$2s^22p^2(^3P)5s$	4P	$^3/2$		u18,LS	L3513
664.496	664.4962	235	3.49e+06	D+	94	881.820	-	109	926.661	$2s^22p^2(^3P)3p$	$^4D^\circ$	$^7/2$	$2s^22p^2(^3P)5s$	4P	$^5/2$		u18,LS	L3513
664.650	664.6503	185	2.18e+06	D+	94	770.880	-	109	812.233	$2s^22p^2(^3P)3p$	$^4D^\circ$	$^1/2$	$2s^22p^2(^3P)5s$	4P	$^1/2$		u18,LS	L3513
665.346	665.3458	235	2.74e+06	D+	94	830.890	-	109	856.520	$2s^22p^2(^3P)3p$	$^4D^\circ$	$^5/2$	$2s^22p^2(^3P)5s$	4P	$^3/2$		u18,LS	L3513
665.651	665.6509	210	2.17e+06	D+	94	793.490	-	109	812.233	$2s^22p^2(^3P)3p$	$^4D^\circ$	$^3/2$	$2s^22p^2(^3P)5s$	4P	$^1/2$		u18,LS	L3513
672.262	672.2610	185	3.56e+06	C	95	532.150	-	110	403.220	$2s^22p^2(^3P)3p$	$^4P^\circ$	$^5/2$	$2s^22p^2(^3P)4d$	4D	$^7/2$		u18,LS	L3513
739.864		210																L3513
740.612	740.6122	160	1.52e+06	C	96	787.680	-	110	286.305	$2s^22p^2(^3P)3p$	$^2D^\circ$	$^3/2$	$2s^22p^2(^3P)4d$	2F	$^5/2$		u18,LS	L3513
740.624	740.6239	265	1.63e+06	C	96	864.050	-	110	362.462	$2s^22p^2(^3P)3p$	$^2D^\circ$	$^5/2$	$2s^22p^2(^3P)4d$	2F	$^7/2$		u18,LS	L3513
742.364	742.3641	685	5.64e+06	B+	83	284.070	-	96	750.840	$2s^22p^2(^3P)3s$	4P	$^1/2$	$2s^22p^2(^3P)3p$	$^4S^\circ$	$^3/2$		T7370	L3513
744.229	744.2298	785	1.19e+07	B+	83	317.830	-	96	750.840	$2s^22p^2(^3P)3s$	4P	$^3/2$	$2s^22p^2(^3P)3p$	$^4S^\circ$	$^3/2$		T7370	L3513
746.831	746.8312	900	1.96e+07	B+	83	364.620	-	96	750.840	$2s^22p^2(^3P)3s$	4P	$^5/2$	$2s^22p^2(^3P)3p$	$^4S^\circ$	$^3/2$		T7370	L3513
760.880		185																L3513
818.487	818.4861	400	8.21e+06	B+	83	317.830	-	95	532.150	$2s^22p^2(^3P)3s$	4P	$^3/2$	$2s^22p^2(^3P)3p$	$^4P^\circ$	$^5/2$		T7370	L3513
818.802	818.8012	400	1.25e+07	B+	83	284.070	-	95	493.690	$2s^22p^2(^3P)3s$	4P	$^1/2$	$2s^22p^2(^3P)3p$	$^4P^\circ$	$^3/2$		T7370	L3513
820.036	820.0357	250	4.68e+06	B+	83	284.070	-	95	475.310	$2s^22p^2(^3P)3s$	4P	$^1/2$	$2s^22p^2(^3P)3p$	$^4P^\circ$	$^1/2$		T7370	L3513
821.072	821.0715	300	5.23e+06	B+	83	317.830	-	95	493.690	$2s^22p^2(^3P)3s$	4P	$^3/2$	$2s^22p^2(^3P)3p$	$^4P^\circ$	$^3/2$		T7370	L3513
821.634	821.6336	570	2.26e+07	B+	83	364.620	-	95	532.150	$2s^22p^2(^3P)3s$	4P	$^5/2$	$2s^22p^2(^3P)3p$	$^4P^\circ$	$^5/2$		T7370	L3513
822.314	822.3128	400	2.62e+07	B+	83	317.830	-	95	475.310	$2s^22p^2(^3P)3s$	4P	$^3/2$	$2s^22p^2(^3P)3p$	$^4P^\circ$	$^1/2$		T7370	L3513
824.239	824.2389	400	1.31e+07	B+	83	364.620	-	95	493.690	$2s^22p^2(^3P)3s$	4P	$^5/2$	$2s^22p^2(^3P)3p$	$^4P^\circ$	$^3/2$		T7370	L3513
856.774	856.7735	500	4.86e+06	B+	86	137.350	-	97	805.840	$2s^22p^2(^3P)3s$	2P	$^1/2$	$2s^22p^2(^3P)3p$	$^2P^\circ$	$^3/2$		T7370	L3513
859.400	859.4000	570	2.09e+07	B+	86	137.350	-	97	770.180	$2s^22p^2(^3P)3s$	2P	$^1/2$	$2s^22p^2(^3P)3p$	$^2P^\circ$	$^1/2$		T7370	L3513
862.924	862.9235	650	2.67e+07	B+	86	220.510	-	97	805.840	$2s^22p^2(^3P)3s$	2P	$^3/2$	$2s^22p^2(^3P)3p$	$^2P^\circ$	$^3/2$		T7370	L3513
865.589	865.5878	500	1.07e+07	B+	86	220.510	-	97	770.180	$2s^22p^2(^3P)3s$	2P	$^3/2$	$2s^22p^2(^3P)3p$	$^2P^\circ$	$^1/2$		T7370	L3513

868.028	868.0282	700	2.53e+07	B+	83 364.620	-	94 881.820	$2s^22p^2(^3P)3s$	4P	$^5/2$	$2s^22p^2(^3P)3p$	$^4D^\circ$	$^7/2$	T7370	L3513
868.340	868.3403	650	1.88e+07	B+	83 317.830	-	94 830.890	$2s^22p^2(^3P)3s$	4P	$^3/2$	$2s^22p^2(^3P)3p$	$^4D^\circ$	$^5/2$	T7370	L3513
868.615	868.6149	500	1.15e+07	B+	83 284.070	-	94 793.490	$2s^22p^2(^3P)3s$	4P	$^1/2$	$2s^22p^2(^3P)3p$	$^4D^\circ$	$^3/2$	T7370	L3513
870.325	870.3247	500	2.16e+07	B+	83 284.070	-	94 770.880	$2s^22p^2(^3P)3s$	4P	$^1/2$	$2s^22p^2(^3P)3p$	$^4D^\circ$	$^1/2$	T7370	L3513
871.170	871.1703	570	1.29e+07	B+	83 317.830	-	94 793.490	$2s^22p^2(^3P)3s$	4P	$^3/2$	$2s^22p^2(^3P)3p$	$^4D^\circ$	$^3/2$	T7370	L3513
871.883	871.8837	500	6.54e+06	B+	83 364.620	-	94 830.890	$2s^22p^2(^3P)3s$	4P	$^5/2$	$2s^22p^2(^3P)3p$	$^4D^\circ$	$^5/2$	T7370	L3513
872.889	872.8901	250	3.75e+06	B+	83 317.830	-	94 770.880	$2s^22p^2(^3P)3s$	4P	$^3/2$	$2s^22p^2(^3P)3p$	$^4D^\circ$	$^1/2$	T7370	L3513
874.736	874.7369	200	9.65e+05	B+	83 364.620	-	94 793.490	$2s^22p^2(^3P)3s$	4P	$^5/2$	$2s^22p^2(^3P)3p$	$^4D^\circ$	$^3/2$	T7370	L3513
938.680	938.6805	500	2.13e+07	B	86 137.350	-	96 787.680	$2s^22p^2(^3P)3s$	2P	$^1/2$	$2s^22p^2(^3P)3p$	$^2D^\circ$	$^3/2$	T7370	L3513
939.279	939.2793	570	2.51e+07	B	86 220.510	-	96 864.050	$2s^22p^2(^3P)3s$	2P	$^3/2$	$2s^22p^2(^3P)3p$	$^2D^\circ$	$^5/2$	T7370	L3513
946.068	946.0676	250	3.73e+06	B	86 220.510	-	96 787.680	$2s^22p^2(^3P)3s$	2P	$^3/2$	$2s^22p^2(^3P)3p$	$^2D^\circ$	$^3/2$	T7370	L3513
986.333	986.3334	200	1.03e+07	B	94 881.820	-	105 017.600	$2s^22p^2(^3P)3p$	$^4D^\circ$	$^7/2$	$2s^22p^2(^3P)3d$	4D	$^7/2$	T7370	L3513
1 010.513	1 010.5132	250	2.81e+07	B	94 770.880	-	104 664.130	$2s^22p^2(^3P)3p$	$^4D^\circ$	$^1/2$	$2s^22p^2(^3P)3d$	4F	$^3/2$	T7370	L3513
1 010.889	1 010.8892	300	3.02e+07	B	94 793.490	-	104 683.060	$2s^22p^2(^3P)3p$	$^4D^\circ$	$^3/2$	$2s^22p^2(^3P)3d$	4F	$^5/2$	T7370	L3513
1 011.248	1 011.2481	350	3.41e+07	B	94 830.890	-	104 716.950	$2s^22p^2(^3P)3p$	$^4D^\circ$	$^5/2$	$2s^22p^2(^3P)3d$	4F	$^7/2$	T7370	L3513
1 011.464	1 011.464	400	3.90e+07	B	94 881.820	-	104 765.77	$2s^22p^2(^3P)3p$	$^4D^\circ$	$^7/2$	$2s^22p^2(^3P)3d$	4F	$^9/2$	T7370	L3513
1 053.957	1 053.9575	250	2.54e+07	B+	95 532.150	-	105 017.600	$2s^22p^2(^3P)3p$	$^4P^\circ$	$^5/2$	$2s^22p^2(^3P)3d$	4D	$^7/2$	T7370	L3513
1 207.451	1 207.4486	200	6.30e+06	B+	96 864.050	-	105 143.710	$2s^22p^2(^3P)3p$	$^2D^\circ$	$^5/2$	$2s^22p^2(^3P)3d$	2D	$^5/2$	T7370	L3513
1 218.682	1 218.684	380	7.40e+06	B+	95 532.150	-	103 735.48	$2s^22p^2(^3P)3p$	$^4P^\circ$	$^5/2$	$2s^22p^2(^3P)4s$	4P	$^5/2$	T7370	L3513
1 228.897	1 228.881	225	1.41e+07	B	96 750.840	-	104 886.10	$2s^22p^2(^3P)3p$	$^4S^\circ$	$^3/2$	$2s^22p^2(^3P)3d$	4P	$^1/2$	T7370	L3513
1 232.876	1 232.877	290	1.30e+07	B	96 750.840	-	104 859.73	$2s^22p^2(^3P)3p$	$^4S^\circ$	$^3/2$	$2s^22p^2(^3P)3d$	4P	$^3/2$	T7370	L3513
1 238.165	1 238.1633	310	1.09e+07	B	96 750.840	-	104 825.110	$2s^22p^2(^3P)3p$	$^4S^\circ$	$^3/2$	$2s^22p^2(^3P)3d$	4P	$^5/2$	T7370	L3513
1 243.840		180													L3513
1 246.125	1 246.1253	510	1.82e+07	B	96 787.680	-	104 810.360	$2s^22p^2(^3P)3p$	$^2D^\circ$	$^3/2$	$2s^22p^2(^3P)3d$	2F	$^5/2$	T7370	L3513
1 246.962	1 246.9615	920	2.18e+07	B	96 864.050	-	104 881.350	$2s^22p^2(^3P)3p$	$^2D^\circ$	$^5/2$	$2s^22p^2(^3P)3d$	2F	$^7/2$	T7370	L3513
1 342.961	1 342.9604	500	3.09e+06	C+	86 137.350	-	93 581.550	$2s^22p^2(^3P)3s$	2P	$^1/2$	$2s^22p^2(^3P)3p$	$^2S^\circ$	$^1/2$	T7370	L3513
1 358.133	1 358.1323	840	5.73e+06	C+	86 220.510	-	93 581.550	$2s^22p^2(^3P)3s$	2P	$^3/2$	$2s^22p^2(^3P)3p$	$^2S^\circ$	$^1/2$	T7370	L3513
1 358.773	1 358.7710	180	6.31e+06	C+	96 864.050	-	104 221.630	$2s^22p^2(^3P)3p$	$^2D^\circ$	$^5/2$	$2s^22p^2(^3P)4s$	2P	$^3/2$	T7370	L3513
1 360.227	1 360.2278	180	1.07e+07	B	97 770.180	-	105 119.880	$2s^22p^2(^3P)3p$	$^2P^\circ$	$^1/2$	$2s^22p^2(^3P)3d$	2D	$^3/2$	T7370	L3513
1 362.418	1 362.4208	290	1.33e+07	B	97 805.840	-	105 143.710	$2s^22p^2(^3P)3p$	$^2P^\circ$	$^3/2$	$2s^22p^2(^3P)3d$	2D	$^5/2$	T7370	L3513
1 475.707	1 475.7073	250	1.06e+06	B	88 107.260	-	94 881.820	$2s2p^4$	4P	$^5/2$	$2s^22p^2(^3P)3p$	$^4D^\circ$	$^7/2$	T7370	L3513
1 486.887	1 486.8855	100	2.82e+05	B	88 107.260	-	94 830.890	$2s2p^4$	4P	$^5/2$	$2s^22p^2(^3P)3p$	$^4D^\circ$	$^5/2$	T7370	L3513
1 496.660	1 496.6597	160	7.05e+05	B	88 151.170	-	94 830.890	$2s2p^4$	4P	$^3/2$	$2s^22p^2(^3P)3p$	$^4D^\circ$	$^5/2$	T7370	L3513
1 558.227	1 558.2287	180	6.5e+06	D+	97 805.840	-	104 221.630	$2s^22p^2(^3P)3p$	$^2P^\circ$	$^3/2$	$2s^22p^2(^3P)4s$	2P	$^3/2$	T7370	L3513
1 751.658		120													L3513
1 758.486		100													L3513
1 787.826		100													L3513

Query time: 1.3 sec

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