

## CO2 Molecular Radiation & Typical Tunable Laser Spectrum

Line	Wavelength (μm)	L4G (mw)	MeritG (w)	G20 (w)	Line	Wavelength (μm)	L3S (mw)	L4G (mw)	MeritG (w)	G20 (w)
9R (42)	9.1656440				10R (42)	10.1148262				2.05
40	9.1740695				40	10.1253400				3.69
38	9.1827244				38	10.1361464				5.23
36	9.1916114			3.55	36	10.1472454			0.10	6.04
34	9.2007329		0.24	3.84	34	10.1586374		85	0.56	7.09
32	9.2100915	156	0.26	5.44	32	10.1703225		142	0.75	7.47
30	9.2196895	192	0.81	6.22	30	10.1823014		240	1.30	8.23
28	9.2295296	340	0.82	6.82	28	10.1945745		240	1.60	9.02
26	9.2396141	350	1.10	8.08	26	10.2071425		255	1.90	9.32
24	9.2499453	360	1.40	9.31	24	10.2200062	420	380	2.00	9.52
22	9.2605258	340	1.40	8.51	22	10.2331666		340	1.50	9.68
20	9.2713577	340	1.50	9.41	20	10.2466246	480	360	2.00	9.83
18	9.2824434	380	0.88	8.76	18	10.2603814	535	450	1.90	9.73
16	9.2937852	415	1.40	8.63	16	10.2744384		400	1.90	9.50
14	9.3053853	280	0.80	7.47	14	10.2887967		390	1.90	9.65
12	9.3172460	250	0.87	8.75	12	10.3034581	470	380	1.50	8.90
10	9.3293695	350	0.72	7.48	10	10.3184241		380	1.10	8.63
8	9.3417579	250	0.10	5.31	8	10.3336965		270	0.28	7.71
6	9.3544134			3.05	6	10.3492772		200		6.96
4	9.3673380				4	10.3651683				4.80
9P(6)	9.4433275			2.65	10P(6)	10.4582196				5.52
8	9.4580515	125		4.92	8	10.4761866	600	180	0.08	7.02
10	9.4730598	330	0.87	6.35	10	10.4944835	570	230	1.30	8.10
12	9.4883540	290	0.76	8.01	12	10.5131136	560	380	1.90	8.39
14	9.5039361	380	0.80	8.35	14	10.5320802	680	330	1.70	8.28
16	9.5198079	410	1.10	9.40	16	10.5513868	640	290	2.40	8.67
18	9.5359711	462	1.10	10.09	18	10.5710372	720	300	2.60	8.78
20	9.5524275	440	1.40	9.97	20	10.5910352	740	300	2.50	9.61
22	9.5691788	470	1.50	9.67	22	10.6113848	700	310	2.40	8.09
24	9.5882267	435	1.60	10.42	24	10.6320902		310	2.30	8.40
26	9.6035727	405	1.60	10.02	26	10.3531558	650	240	2.70	8.80
28	9.6212185	340	1.50	9.28	28	10.6745861	610	260	2.00	8.25
30	9.6391656	280	1.40	8.73	30	10.6963859	600	220	1.40	7.54
32	9.6574156	215	1.10	7.76	32	10.7185600		100	1.50	6.81
34	9.6750700	135	0.94	7.24	34	10.7411135			0.75	5.71
36	9.6948301	75	0.70	6.67	36	10.7640517			0.75	4.37
38	9.7139973		0.30	5.06	38	10.7873802				4.65
40	9.7334730		0.09	3.98	40	10.8111046				3.66
42	9.7532586			3.24	42	10.8352307				2.28
44	9.7733552			2.28	44	10.8597648				1.35