

		R branch (Cl-35)				R branch (Cl-37)	
J	m	wavenumber(cm ⁻¹)	wavenumber(m ⁻¹)	J	m	wavenumber(cm ⁻¹)	
1		2925.93	292593	1	2	2923.77	
2		2944.92	294492	2	3	2942.73	
3		2963.32	296332	3	4	2961.08	
4		2981.03	298103	4	5	2978.77	
5		2998.06	299806	5	6	2995.8	
6		3014.43	301443	6	7	3012.15	
7		3030.11	303011	7	8	3027.81	
J		P Branch (Cl-35)					
		wavenumber(m ⁻¹)					
1	-1	2865.11	286511	1	-1	2863.05	
2	-2	2843.65	284365	2	-2	2841.6	
3	-3	2821.59	282159	3	-3	2819.57	
4	-4	2798.95	279895	4	-4	2797	
5	-5	2775.79	277579	5	-5	2773.85	
6	-6	2752.05	275205	6	-6	2750.15	
7	-7	2727.81	272781	7	-7	2725.93	
8	-8	2705.15	270515	8	-8	2701.2	

	Cl35	SI units	
α_e	-29.1	1/m	α_e
$2(\text{Be} - \alpha_e)$	2044.4	1/m	$2(\text{Be} - \alpha_e)$
v_0	288579	1/m	v_0
$(\text{Be} - \alpha_e)$	1022.2	1/m	$(\text{Be} - \alpha_e)$
Be	1051.3	1/m	Be
Moment of Inertia	2.40203E-46	kg m ²	Moment of Inertia
Reduced mass	0.972222222	amu	Reduced mass
Reduced mass	1.62037E-27	kg	Reduced mass
Bond distance (le)	3.85019E-10	meter	Bond distance (le)
De	0.11585		De

wavenumber(m⁻¹)

292377
294273
296108
297877
299580
301215
302781

286305
284160
281957
279700
277385
275015
272593
270120

Cl37

Si

-30.295 1/m
2054.4 1/m
288389 1/m
1027.2 1/m
1057.495 1/m
2.38796E-46 kg m²
0.973684211 amu
1.62281E-27 kg
3.83601E-10 meter
0.0512