



Experimental Data

Monatomic		Diatomic	
Φ [in $^\circ$]	ν [in kHz]	Φ [in $^\circ$]	ν [in kHz]
90.0	3.65	90.0	2.51
180.0	7.47	180.0	5.02
270.0	11.21	270.0	7.84
360.0	15.02	360.0	9.80
450.0	18.28	450.0	12.64
540.0	21.78	540.0	14.28
630.0	24.85	630.0	16.06
720.0	28.14	720.0	18.11
810.0	30.95	810.0	20.35
900.0	33.31	990.0	30.87
990.0	36.22	1080.0	31.83
1080.0	37.99	1170.0	32.51
1170.0	40.04	1260.0	33.26
1260.0	41.20	1350.0	33.98
1350.0	42.86		