

**Table 33B-10-001.** Rb<sub>1-x</sub>(NH<sub>4</sub>)<sub>x</sub>H<sub>2</sub>AsO<sub>4</sub> (RADA). Mode frequencies [cm<sup>-1</sup>] obtained from infrared reflectivity [90Kwu]. Parameter: x, T.

Mode	x = 1 (ADA)		x = 0.75		x = 0.70		x = 0 (RDA)	
	250 K	100 K	170 K	100 K	150 K	100 K	120 K	100 K
$\nu_1$		756		753		763		766
$\nu_2$	286	257 271 280 291	285	258 ) 282 292	284	257 ) 278 289	276	253 289
$\nu_3$	760 850	782 828 853 872 935 957	760 850	781 823 852 871 ) 953	760 850	783 820 (858) 873 ) (960)	740 840	781 (880) 910
$\nu_4$	326 386	341 351 378 384 399 422	327 390	341 350 ) 385 492 424	316 377	339 353 ) 383 401 422	342 405	340 369 407
$\gamma(\text{OH})$	990	977 999	1030	996		(970)	1000	1035
$\delta(\text{OH})$	1260	1100 1265 1289	1100 1260	1101 1268 1284	1230	1283	1260	1285
$\nu_4$ (NH <sub>4</sub> )	1407 1455	1407 1454 1470	1407 1463	1405 ) 1471	1410 1460	1405 ) 1471		

\*) Modes are not observed.