

TABLE 1. FREQUENCIES OF *p*-X-C₆H₄-OH COMPOUNDS

Designation	Description	Symmetry Class, C_{2v}	Frequency, cm^{-1}	Frequency Range, cm^{-1}
16'	$\nu\text{C-C}$	a_1	1585-1628	43
16		b_2	1573-1620	47
13		a_1	1488-1525	37
13'		b_2	1430-1480	50
9		b_2	1344-1388	44
2		a_1	825-857	32
3	$\beta\text{C-H}$	b_2	1261-1307	46
17'		a_1	1150-1186	36
10		b_2	1092-1116	24
14		a_1	1005-1025	20
19	$\gamma\text{C-H}$	a_2	937-975	38
7		b_1	914-960	46
4		b_1	818-854	36
11		a_2	808-835	27
8	$\phi\text{C-C}$	b_1	687-711	24
18	$\alpha\text{C-C-C}$	b_2	630-652	22
	βOH	b_2	1205-1239	34
	γOH	b_1	600-780	180
12	X-sensitive	a_1	1235-1282	47
15'		a_1	1069-1231	162
6		a_1	603-791	188
18'		a_1	290-510	220
17		b_2	360-456	96
14'		b_2	$\sim 209-341$	132
20'		b_1	504-548	44
11'		b_1	319-412	93
19'		b_1	$\sim 150-211$	61

Vibrational Spectra Of Benzene Derivatives

**György Varsányi, L. Láng, Mikhail
Arkad'evich Kovner, K. Lempert**



Vibrational Spectra Of Benzene Derivatives:

Vibrational Spectra of Benzene Derivatives G Varsanyi, 2012-12-02 *Vibrational Spectra of Benzene Derivatives* specifically deals with the problems of the vibrational spectra of benzene and its derivatives The book is divided into three chapters Chapter 1 explains the concepts of the electronic and electronic vibration spectra vibrational spectra and rotational spectra Chapter 2 tackles the normal coordinate analysis of the benzene molecule the force field of substituted benzene derivatives and elementary problems of intensity analysis Chapter 3 covers the normal vibrations of benzene and its derivatives which include tangential vibrations out of plane vibrations and internal vibrations of substituent groups The book also contains an appendix dedicated for the frequency region of different normal vibrations of benzene derivatives The text is recommended for chemists who are intrigued with the problems related to the vibrational spectra of benzene derivatives and are in need of a reference book

Assignments for Vibrational Spectra of Seven Hundred Benzene Derivatives György

Varsányi, 1974 **Assignments for Vibrational Spectra of Seven Hundred Benzene Derivatives** György Varsányi, L.

Láng, Mikhail Arkad'evich Kovner, K. Lempert, 1974 *Vibrational spectra of benzene derivatives, with a contribution by S.*

Szoke Gyorgy Varsanyi, Sandor Szoke, The Vibrational Spectroscopy of Polymers D. I. Bower, David I. Bower, W. F.

Maddams, 1992-07-16 Describes the theory and practice of infrared and Raman spectroscopy as applied to the study of the physical and chemical characteristics of polymers Its purpose is to give the beginning researcher in the field a firm foundation and a starting point for the study of more advanced literature To this end the book concentrates on the fundamentals of the theory and nomenclature and on the discussion of well documented illustrations of these fundamental principles including many now classic studies in the subject No previous knowledge of either polymers or vibrational spectroscopy is assumed

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Varsányi, 1974 Assignments for Vibrational Spectra of 700 Benzene Derivatives György Varsányi, 1973 Infrared and

Raman Spectroscopy Günter G. Hoffmann, 2023-09-18 Quite a few excellent books about vibrational spectroscopy have already been published So why write a new one The last years have seen the birth of new techniques and first of all a wealth of new applications Therefore a lot of new users need an introduction to these techniques and applications but if they are new to vibrational spectroscopy an introduction to the parent techniques as well Vibrational spectroscopies can detect and analyze vibrations in molecules Mainly two different forms are used today Infrared and Raman spectroscopy Vibrational spectroscopy is used by chemists to characterize their substances If the spectra of substances are known analytical chemists can use them to analyze a mixture of chemicals Samples may be analyzed even with spatial resolution on the microscopic as well as on the macroscopic scale Infrared and Raman Spectroscopy is intended for researchers or lecturers in Chemistry Physics Materials Science and Life Sciences who are interested in the composition and properties of their samples It

describes how vibrational spectroscopy will enable them to examine thin layers surfaces and interfaces and also improve their knowledge about the properties of composites Special chapters introduce VCD ROA and TERS The book can serve as a short introduction to vibrational spectroscopy too so that students at the first graduate level will benefit from it as well

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