625m, 575w,b, 523s, 500w, 450m,b, 380m.

Diacetate ditin bis(oximate): 1620s, 1600s, 1580s, 1510s, 1475s,b, 1430m, 1390s,b, 1325s,b, 1272s, 1240m, 1210m, 1180m, 1145m, 1110s, 1090ws, 1060m, 1045m, 1020m, 938m, 830s, 810s, 795s, 750s,sh, 685s, 640m, 620s, 580m, 560s, 505m, 495m, 308s.

The UV spectral data for some representative organotin benzohydroxamates along with the benzohydroxamic acids are presented in the tabular form. The spectra were taken in Beckman DU-2 spectrophotometer, using 1 cm. cells. The solvents used were all of spectral grade (Uvasol). The absorption bands are broad and in some cases extinction coefficients could not be calculated due to insufficient solubility in the solvents concerned.

TABLE-I

UV spectral data of some N-substituted benzohydroxamic acids in different solvents.

Compounds	Solvents used	λ_{max}(nm)	log ϵ_{max}
PhCO.NOHPh	cyclohexane	276	3.81
	dichloromethane	271	3.87
	methanol	265	3.95
p-ClC_6H_4CO.NOHPh	cyclohexane	227,281	—
	methanol	227	4.03
		267	3.98

Contd...

TABLE-I (Contd.)

Compounds	Solvents used	λ_{max}(nm)	log ϵ_{max}
p-$NO_2C_6H_4$.CO.NOHPh	cyclohexane	252	----
	dichloromethane	254	4.09
	methanol	249	4.12
p-$ClC_6H_4NOH.COC_6H_5$	cyclohexane	229,275	----
o-$CH_3C_6H_4NOH.COC_6H_5$	cyclohexane	269	3.90

TABLE-II

UV spectral data of some tri-and diorganotin derivatives of N-substituted benzohydroxamic acids.

Compounds	Solvents used	λ_{max}(nm)	log ϵ_{max}
Ph_3Sn(PhCO.NOPh)	cyclohexane	206	3.75
	methanol	264	
Ph_3Sn(p-$ClC_6H_4CO.NOPh$)	cyclohexane	298	3.90
Ph_3Sn(p-$NO_2C_6H_4CO.NOPh$)	cyclohexane	253,339	----
	dichloromethane	254	4.16
	methanol	252	4.15

Contd..

TABLE-II (Contd.)

Compounds	Solvents used	λ_{max}(nm)	log ϵ_{max}
$Ph_3Sn(p\text{-}ClC_6H_4NO.COPh)$	cyclohexane	296	3.90
$Ph_2Sn(o\text{-}CH_3C_6H_4NO.COPh)$	cyclohexane	291	3.84
$Ph_2Sn(p\text{-}NO_2C_6H_4CO.NOPh)_2$	cyclohexane	252,333	———
	methanol	350	———
$Ph_2Sn(p\text{-}ClC_6H_4CO.NOPh)_2$	dichloromethane	299	4.16
$Bu_2Sn(p\text{-}ClC_6H_4CO.NOPh)_2$	dichloromethane	295	4.35
	methanol	270	4.20

TABLE-III

UV spectral data of five different classes of organotin compounds of N-phenylbenzohydroxamic acid.

Compounds	Solvents used	λ_{max}(nm)	log ϵ_{max}
$Ph_3Sn(PhCONOPh)$	cyclohexane	296	3.75
	methanol	284	———
$Ph_2Sn(PhCO.NOPh)_2$	cyclohexane	293	———
	dichloromethane	239	4.08
$Ph_2SnCl(PhCO.NOPh)$	cyclohexane	239	3.75
	dichloromethane	279	3.82
	methanol	269	3.90

Contd..

TABLE-III (Contd.)

Compounds	Solvents used	λ_{max}(nm)	log ϵ_{max}
$PhSnCl(PhCO.CHOPh)_2$	cyclohexane	237	———
	methanol	271	4.11
$PhSnCl(OMe)(PhCO.CHOPh)$	cyclohexane	235	———
	methanol	271	———