

# Photophysical Studies of Zn (II) Tetra, *tert-butyl* Phthalocyanine

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**Table 4.** Absorbance B, Q bands in different content of water in ethanol of *tert*-ZnPc (II)

	100%EtOH	0.1%W	1%W	5%W	10%W	20%W	30%wW	50%W
$\Lambda_{\max}$ B band (nm)	347	347	347	347	347	347	347	347
$\Lambda_{\max}$ Q band 1 (nm)	608	608	608	608	608	608	608	608
$\Lambda_{\max}$ Q band 2 (nm)	674	674	674	674	676	676	676	676
Abs Intensity B band (nm)	0.38	0.168	0.168	0.174	0.148	0.115	-0.030	-0.056
Abs Intensity Q band 1 (nm)	0.181	0.081	0.084	0.079	0.069	0.053	-0.074	-0.048
Abs Intensity Q band 2 (nm)	1.228	0.593	0.591	0.558	0.496	0.417	0.166	-0.015

**Table 5.** Absorbance B, Q bands in different content of water in methanol of *tert*-ZnPc (II)

	100%MeOH	0.1%W	1%W	5%W	10%W	20%W	30%wW
$\Lambda_{\max}$ B band (nm)	347	347	347	348	348	348	348
$\Lambda_{\max}$ Q band 1 (nm)	608	608	608	609	609	609	609
$\Lambda_{\max}$ Q band 2 (nm)	673	673	673	674	677	677	677
Abs Intensity B band (nm)	0.376	0.154	0.162	0.147	0.124	0.081	0
Abs Intensity Q band 1 (nm)	0.175	0.064	0.062	0.054	0.043	0.032	0
Abs Intensity Q band 2 (nm)	1.115	0.415	0.385	0.338	0.241	0.032	0

**Table 6.** Absorbance B, Q bands in different content of water in acetonitrile of *tert*-ZnPc (II)

	100%ACN	0.1%W	1%W	5%W	10%W	20%W	30%wW	50%W	70%wW
$\Lambda_{\max}$ B band (nm)	346	346	346	346	346	346	346	346	346
$\Lambda_{\max}$ Q band 1 (nm)	606	606	606	606	607	607	607	607	607
$\Lambda_{\max}$ Q band 2 (nm)	672	672	672	672	673	673	673	673	673
Abs Intensity B band (nm)	0.389	0.176	0.221	0.218	0.202	0.157	0.098	0.072	0.53
Abs Intensity Q band 1 (nm)	0.184	0.080	0.093	0.085	0.074	0.058	0.026	0.013	0.002
Abs Intensity Q band 2 (nm)	1.270	0.632	0.640	0.616	0.563	0.464	0.293	0.141	0.106