



**Stability Constants of Mixed Ligand Complexes of Transition Metal(II) ions with 1-[(1E)-N-(2-chloro-6-methylphenyl)ethanimidoyl]naphthalen-2-ol and 2-{(E)-[(2-bromophenyl)imino]methyl}phenol.**

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**Abstract :** Binary and ternary complexes of the type M-Y and M-X-Y [M = Co(II), Ni(II), Cu(II) and Zn(II); X = 2-{(E)-[(2-bromophenyl)imino]methyl}phenol and Y = 1-{(E)-[(2-chloro-4-fluorophenyl)imino]methyl}naphthalen-2-ol] have been examined pH-metrically at  $27 \pm 0.5^\circ\text{C}$  and at constant ionic strength,  $\mu = 0.1 \text{ M}$  (KCl) in 75 : 25 (v/v) 1,4-dioxane-water medium. The stability constants for Binary (M-Y) and ternary (M-X-Y) systems were calculated.

**Keywords :** Binary complexes, Ternary complexes, Mixed ligand, Stability constant.

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