

ABBREVIATIONS

- SB: Schiff base
- PTPMP: 3-methyl-1-p-tolyl-1H-pyrazol-5-ol
- APTPMP: 5-hydroxy-3-methyl-1-p-tolyl-1H-pyrazole-4-carbaldehyde
- [APTPMP-4F]: 4-((4-fluorophenylimino)methyl)-3-methyl-1-p-tolyl-1H-pyrazol-5-ol
- [APTPMP-4BR]: 4-((4-bromophenylimino)methyl)-3-methyl-1-p-tolyl-1H-pyrazol-5-ol
- [APTPMP-2,4ME]: 4-((2,4-dimethylphenylimino)methyl)-3-methyl-1-p-tolyl-1-Hpyrazol-5-ol
- [APTPMP-3,4F]: 4-((3,4-difluorophenylimino)methyl)-3-methyl-1-p-tolyl-1-Hpyrazol-5-ol
- [Cu(APTPMP-4F)₂]: Copper complex of [APTPMP-4F]
- [Cu(APTPMP-4BR)₂]: Copper complex [APTPMP-4BR]
- [Cu(APTPMP-2,4ME)₂]: Copper complex of [APTPMP-2,4ME]
- V-4AAP: 4-(2-hydroxy-3-methoxybenzylideneamino)-1,2-dihydro-2,3-dimethyl-1-phenylpyrazol-5-one
- [Cu(V-4AAP)₂]: Copper complex of V-4AAP
- [Ni(V-4AAP)₂]: Nickel complex of V-4AAP
- [OV(V-4AAP)₂]: Vanadium complex of V-4AAP
- V-2,4ME: 2-((2,4-dimethylphenylimino)methyl)-6-methoxyphenol
- V-2N4A: 2-((4-methoxy-2-nitrophenylimino)methyl)-6-methoxyphenol
- V-4F: 2-((4-fluorophenylimino)methyl)-6-methoxyphenol
- V-4BR: 2-((4-bromophenylimino)methyl)-6-methoxyphenol

- [Cu(V-2,4ME)₂].2H₂O: Copper complex of V-2,4ME
- [Ni(V-2,4ME)₂].2H₂O: Nickel complex of V-2,4ME
- [Cu(V-2N4A)₂].2H₂O: Copper complex of V-2N4A
- [Ni(V-2N4A)₂].2H₂O: Nickel complex of V-2N4A
- [Cu(V-4F)₂].2H₂O: Copper complex of V-4F
- [Ni(V-4F)₂].2H₂O: Nickel complex of V-4F
- [Cu(V-4BR)₂].2H₂O: Copper complex of V-4BR
- [Ni(V-4BR)₂].2H₂O: Nickel complex of V-4BR
- PMP (5-methyl-4-(4-methyl-benzoyl)-2-phenyl-2,4-dihydro-pyrazol-3-one),
- PTPMP (5-methyl-4-(4-methyl-benzoyl)-2-p-tolyl-2,4-dihydro-pyrazol-3-one)
- MCPMP (2-(3-chloro-phenyl)-5-methyl-4-(4-methyl-benzoyl))-2,4-dihydro-pyrazol-3-one)
- [PMP-EA]: 4-((Z)-(2-hydroxyethylimino)(p-tolyl)methyl)-3-methyl-1-phenyl-1H-pyrazol-5-ol
- [MCPMP-EA]: 4-((Z)-(2-hydroxyethylimino)(p-tolyl)methyl)-1-(3-chlorophenyl)-3-methyl-1H-pyrazol-5-ol
- [PTPMP-EA]: 4-((Z)-(2-hydroxyethylimino)(p-tolyl)methyl)-3-methyl-1-ptolyl-1H-pyrazol-5-ol
- [Cu(PMP-EA) (H₂O)₂]: Copper complex of PMP-EA
- [Cu(MCPMP-EA) (H₂O)₂]: Copper complex of MCPMP-EA
- [Cu(PTPMP-EA) (H₂O)₂]: Copper complex of PTPMP-EA
- [MMM]: 2-(5-methylpyridin-2-ylimino)methyl)-6-methoxyphenol
- [BMM]: 2-(5-bromopyridin-2-ylimino)methyl)-6-methoxyphenol
- [Cu(MMM)·NO₃]·H₂O: Copper complex MMM
- [Ni(MMM)·NO₃]·H₂O: Nickel complex of MMM

- $[\text{Cu}(\text{BMM})\cdot\text{NO}_3]\cdot\text{H}_2\text{O}$: Copper complex of BMM
- $[\text{Ni}(\text{BMM})\cdot\text{NO}_3]\cdot\text{H}_2\text{O}$: Nickel complex of BMM
- DMF: Dimethylformamide
- DMSO: Dimethylsulfoxide