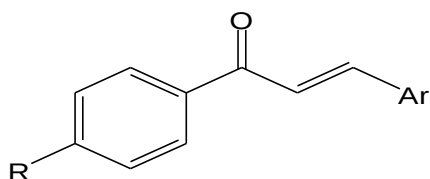


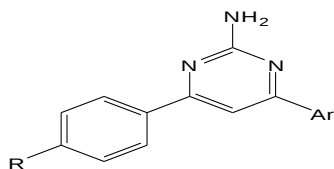
Tables 2.6: UV-Vis spectral data of the prepared compounds

Table 2.6.1: UV-Vis spectral data of the prepared 1,3-diaryl-2propen-1-ones



Number	R	Ar	Solvent	(λ_{\max} (nm
I	H		Methanol	308 ,227
II	H		Methanol	420 ,265
III	H		Methanol	311 ,228
IV	H		Methanol	309 ,227
V	Br		Methanol	311 ,227
VI	Br		Methanol	426 ,274.5
VII	Br		Methanol	341 ,270 ,230
VIII	Br		Methanol	313 ,227
IX	Br		Methanol	350 ,279
X	NO ₂		Methanol	314 ,267
XI	NO ₂		Methanol	440 ,345 ,269
XII	NO ₂		Methanol	351 ,263
XIII	NO ₂		Methanol	352 ,269
XIV	NO ₂		Methanol	345 ,270

Table 2.6.2: UV-Vis spectral data of the prepared 2- amino 4,6-diaryl-pyrimidine













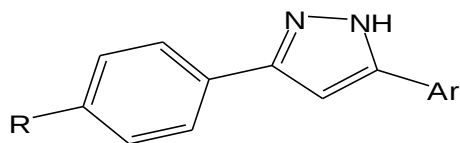
Number	R	Ar	Solvent	(λ_{\max} (nm
XV	H		Methanol	330 ,253
XVI	H		Methanol	426 ,371 ,246
XVII	H		Methanol	253,336
XVIII	Br		Methanol	340 ,250
XIX	Br		Methanol	341 ,267
XX	Br		Methanol	347 ,269
XXI	Br		Methanol	360 ,269
XXII	NO ₂		Methanol	390 ,272
XXIII	NO ₂		Methanol	347 ,277
XXIV	NO ₂		Methanol	352 ,271

Table 2.6.3: UV-Vis spectral data of the prepared 3,5-diphenyl-pyrazole




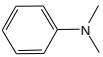
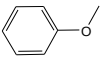
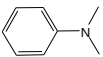
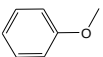

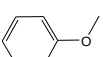

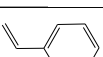
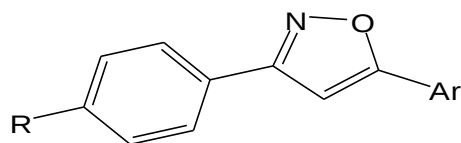
Number	R	Ar	Solvent	(λ_{\max} (nm
XXV	H		Methanol	257
XXVI	H		Methanol	285 ,260
XXVII	H		Methanol	263
XXVIII	Br		Methanol	290 ,264
XXIX	Br		Methanol	264
XXX	NO ₂		Methanol	309 ,256
XXXI	NO ₂		Methanol	295 ,267
XXXII	NO ₂		Methanol	276 ,227
XXXIII	NO ₂		Methanol	310 ,225

Table 2.6.4: UV-Vis spectral data of the prepared and purified 3,5-diphenyl-isoxazole




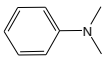
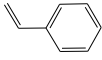
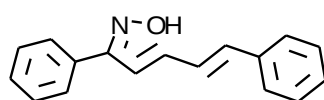
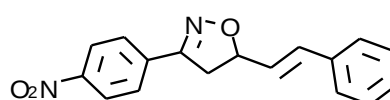
Number	R	Ar	Solvent	(λ_{\max} (nm
XXXIV	H		Methanol	262
XLIV	NO ₂		Methanol	256, 307
XLVII-a	NO ₂		Methanol	289

Table 2.6.5: UV-Vis spectral data of the prepared and isolated isoxazole intermediate



XXXVII-b



XLVII-b

Number	Solvent	(λ_{\max} (nm
XXXVII-b	Methanol	254, 321
XLVII-b	Methanol	251, 314