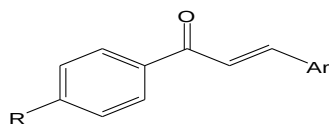















Tables 2.7: TLC data of the prepared compounds

Table 2.7.1: TLC data of the prepared 1,3-diaryl-2propen-1-ones



Number	R	Ar	Mobile phase	R _f
I	H		Ethyl acetate: Hexane, 2:3	0.80
II	H		Ethyl acetate: Hexane, 2:3	0.64
III	H		Ethyl acetate: Hexane, 2:3	0.68
IV	H		Ethyl acetate: Hexane, 2:3	0.77
V	Br		Ethyl acetate: Hexane, 2:3	0.80
VI	Br		Ethyl acetate: Hexane, 2:3	0.68
VII	Br		Ethyl acetate: Hexane, 2:3	0.73
VIII	Br		Ethyl acetate: Hexane, 2:3	0.77
IX	Br		Ethyl acetate: Hexane, 2:3	0.80
X	NO ₂		Ethyl acetate: Hexane, 2:3	0.77
XI	NO ₂		Ethyl acetate: Hexane, 2:3	0.61
XII	NO ₂		Ethyl acetate: Hexane, 2:3	0.68
XIII	NO ₂		Ethyl acetate: Hexane, 2:3	0.73


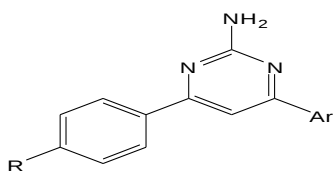
XIV	NO ₂		Ethyl acetate: Hexane, 2:3	0.75
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Table 2.7.2: TLC data of the prepared 2- amino 4,6-diaryl-pyrimidine













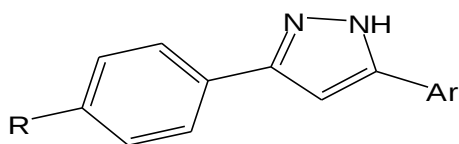
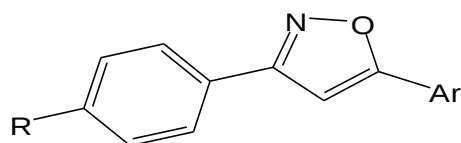
Number	R	Ar	Mobile phase	R _f
XV	H		Ethyl acetate: Hexane, 2:3	0.58
XVI	H		Ethyl acetate: Hexane, 2:3	0.35
XVII	H		Ethyl acetate: Hexane, 2:3	0.43
XVIII	Br		Ethyl acetate: Hexane, 2:3	0.53
XIX	Br		Ethyl acetate: Hexane, 2:3	0.48
XX	Br		Ethyl acetate: Hexane, 2:3	0.43
XXI	Br		Ethyl acetate: Hexane, 2:3	0.53
XXII	NO ₂		Ethyl acetate: Hexane, 2:3	0.38
XXIII	NO ₂		Ethyl acetate: Hexane, 2:3	0.40
XXIV	NO ₂		Ethyl acetate: Hexane, 2:3	0.50

Table 2.7.3: TLC data of the prepared 3,5-diphenyl-pyrazole



Number	R	Ar	Mobile phase	R _f
XXV	H		Ethyl acetate: Hexane, 2:3	0.64
XXVI	H		Ethyl acetate: Hexane, 2:3	0.36
XXVII	H		Ethyl acetate: Hexane, 2:3	0.42
XXVIII	Br		Ethyl acetate: Hexane, 2:3	0.44
XXIX	Br		Ethyl acetate: Hexane, 2:3	0.53
XXX	NO ₂		Ethyl acetate: Hexane, 2:3	0.61
XXXI	NO ₂		Ethyl acetate: Hexane, 2:3	0.47
XXXII	NO ₂		Ethyl acetate: Hexane, 2:3	0.56
XXXIII	NO ₂		Ethyl acetate: Hexane, 2:3	0.58

Table 2.7.4: TLC data of the prepared and purified 3,5-diphenyl-isoxazole




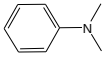
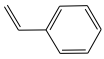
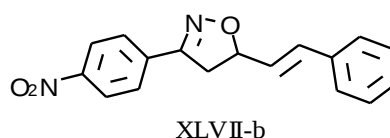
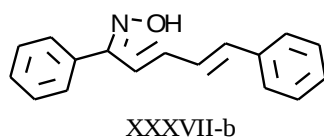
Number	R	Ar	Mobile phase	R _f
XXXIV	H		Ethyl acetate: Hexane, 2:3	0.58
XLIV	NO ₂		Ethyl acetate: Hexane, 2:3	0.60
XLVII-a	NO ₂		Ethyl acetate: Hexane, 2:3	0.63

Table 2.7.5: TLC data of the prepared and isolated isoxazole intermediate



Number	Mobile phase	R _f
XXXVII-b	Ethyl acetate: Hexane, 2:3	0.65
XLVII-b	Ethyl acetate: Hexane, 2:3	0.73