Table 3-2(a): Reaction condition of aryl diazo diethyl malonate compounds

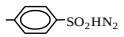
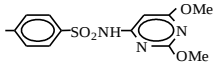
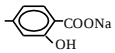
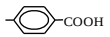
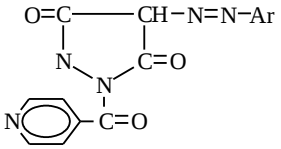
Compound No.	Ar	Time	Temp	Reactants	Molar ratio	%Yield	Recrystalization Solvent	Range M.P
I		3 hours	0--- 5 °C	Sulphanilamide+ diethylmalonate	1:1	71%	Ethanol 95%	145-146°C
V		3 hours	0--- 5 °C	Suphadoxine + diethylmalonate	1:1	78%	Ethanol 95%	162-163°C
XX		3 hours	0--- 5 °C	1- naphthylamine+ diethylmalonate	1:1	91%	Ethanol 95%	197-199°C
X		3 hours	0--- 5 °C	4-aminsalicylic acid+ diethylmalonate	1:1	75%	Ethanol 95%	175-176 °C
XV		3 hours	0--- 5 °C	4-aminobenzoic acid+ diethylmalonate	1:1	82%	Ethanol 95%	158-160°C

Table 3-2(b): Reaction condition of 4- diazo-aryl -1-pyridyl carbonyl)-prazol-3,5-dione



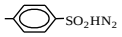
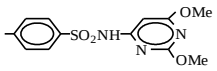
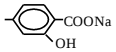
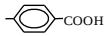
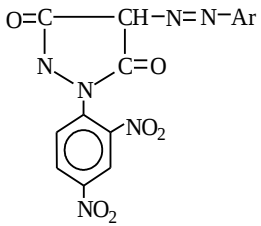
Compound No.	Ar	Time	Temp	Reactants	Molar ratio	%Yield	Recrystalization Solvent	Range M.P
II		10 hours	100 ºC	2-diethylmalonate azo-4-suphanilamide +isonized	1:1	73%	Acetic acid	142-143 ºC
VI		10 hours	100 ºC	2-diethylmalonate azo-4-suphadoxine +isonized	1:1	79%	Acetic acid	171-173 ºC
XXIII		10 hours	100 ºC	2-diethylmalonate azo-4-nathylamine+isonized	1:1	82%	Acetic acid	180-183 ºC
XII		10 hours	100 ºC	2-diethylmalonate azo-4-aminosalicylicacid +isonized	1:1	71%	Acetic acid	183-185 ºC
XVI		10 hours	100 ºC	2-diethylmalonate azo-4-aminobenzoic acid+isonized	1:1	82%	Acetic acid	177-178 ºC

Table 3-2(c): Reaction condition of 4- diazo aryl -) -1-(-2,4-dinitrobenzene) prazol-3,5-dione



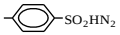
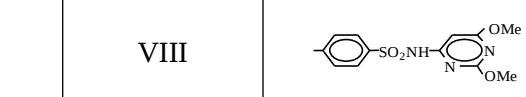
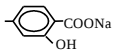
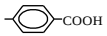
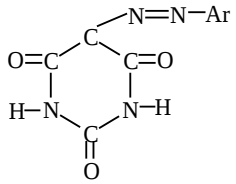
Compound No.	Ar	Time	Temp	Reactants	Molar ratio	%Yield	Recrystalization Solvent	Range M.P
IV		10 hours	100 ºC	2-diethylmalonate azo-4-suphanilamide +2,4-dinitrophenylhydrazine	1:1	92%	Acetic acid	135-137 ºC
VIII		10 hours	100 ºC	2-diethylmalonate azo-4-suphadoxine +2,4-dinitrophenylhydrazine	1:1	86%	Acetic acid	175-176 ºC
XI		10 hours	100 ºC	2-diethylmalonate azo-4-aminosalicylicacid +2,4-dinitrophenylhydrazine	1:1	66%	Acetic acid	180-183 ºC
XVII		10 hours	100 ºC	2-diethylmalonate azo-4-aminobenzoic +2,4-dinitrophenylhydrazine	1:1	78%	Acetic acid	179-181 ºC

Table 3-2(d): Reaction condition of diazo aryl –pyrimidine -2,4,6 trione



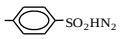
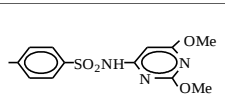
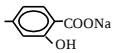
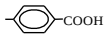
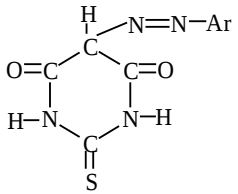
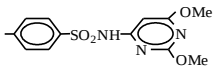
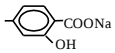
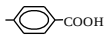
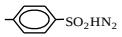
Compound No.	Ar	Time	Temp	Reactants	Molar ratio	%Yield	Recrystalization Solvent	Range M.P
III		2 hours	100 ºC	2-diethylmalonate azo-4-suphanilamide +urea	1 : 0.03	79%	Ethanol 95%	294-295 ºC
VII		2 hours	100 ºC	2-diethylmalonate azo-4-suphadoxine +urea	1 : 0.03	82%	Ethanol 95%	287-288 ºC
XIII		2 hours	100 ºC	2-diethylmalonate azo-4-nathylamine+urea	1 : 0.03	73%	Ethanol 95%	210-212 ºC
XVIII		2 hours	100 ºC	2-diethylmalonate azo-4-aminosalicylicacid + urea	1 : 0.03	80%	Ethanol 95%	179-180 ºC
XXI		2 hours	100 ºC	2-diethylmalonate azo-4-aminobenzoic acid+urea	1 : 0.03	89%	Ethanol 95%	156157 ºC

Table 3-2(e): Reaction condition of diazo aryl –thiopyrimidine -4,6 dione



Compound No.	Ar	Time	Temp	Reactants	Molar ratio	%Yield	Recrystalization Solvent	Range M.P
IX		2 hours	100 ºC	2-diethylmalonate azo-4-suphadoxine +thiourea	1 : 0.03	79%	Ethanol 95%	235-236 ºC
XIV		2 hours	100 ºC	2-diethylmalonate azo-4-nathylamine+thiourea	1 : 0.03	71%	Ethanol 95%	207-209 ºC
XIX		2 hours	100 ºC	2-diethylmalonate azo-4-aminosalicylicacid +thiouera	1 : 0.03	82%	Ethanol 95%	190-192 ºC
XXIV		2 hours	100 ºC	2-diethylmalonate azo-4-aminobenzoic acid+thiourea	1 : 0.03	66%	Ethanol 95%	186-187 ºC
XXV		2 hours	100 ºC	2-diethylmalonate azo-4-suphanilamide +thiourea	1 : 0.03	87%	Ethanol 5%	177-178 ºC