

Article

Polymeric Networks Containing Amine Derivatives as Organocatalysts for Knoevenagel Reaction within Continuously Driven Microfluidic Reactors

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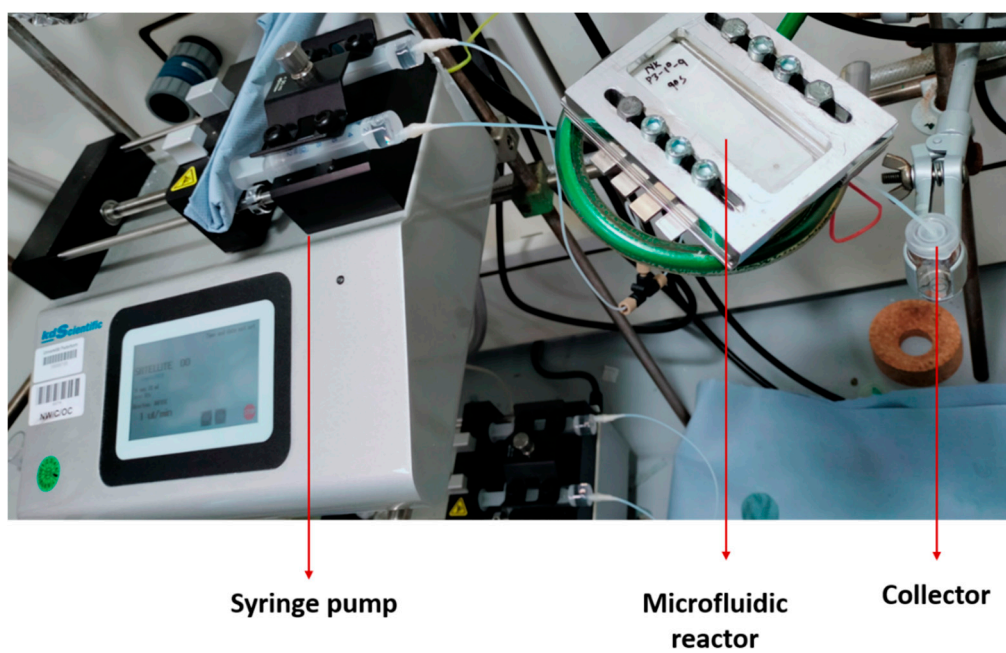


Figure S1: Microfluidic reaction setup.

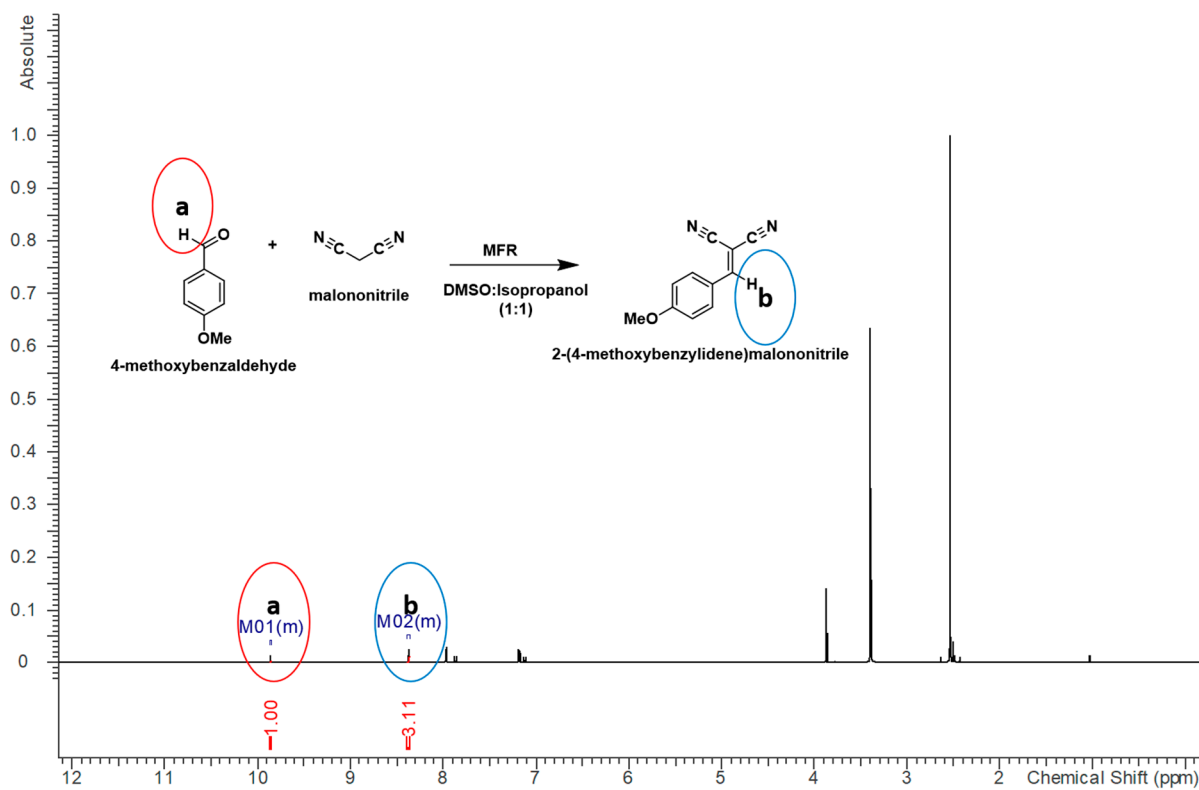


Figure S2: ^1H spectra for determination of conversion of the reaction between 4-methoxy benzaldehyde and malononitrile using polymeric gel composition A in solvent mixture, DMSO:IP (v:v=1:1) for 8 h.

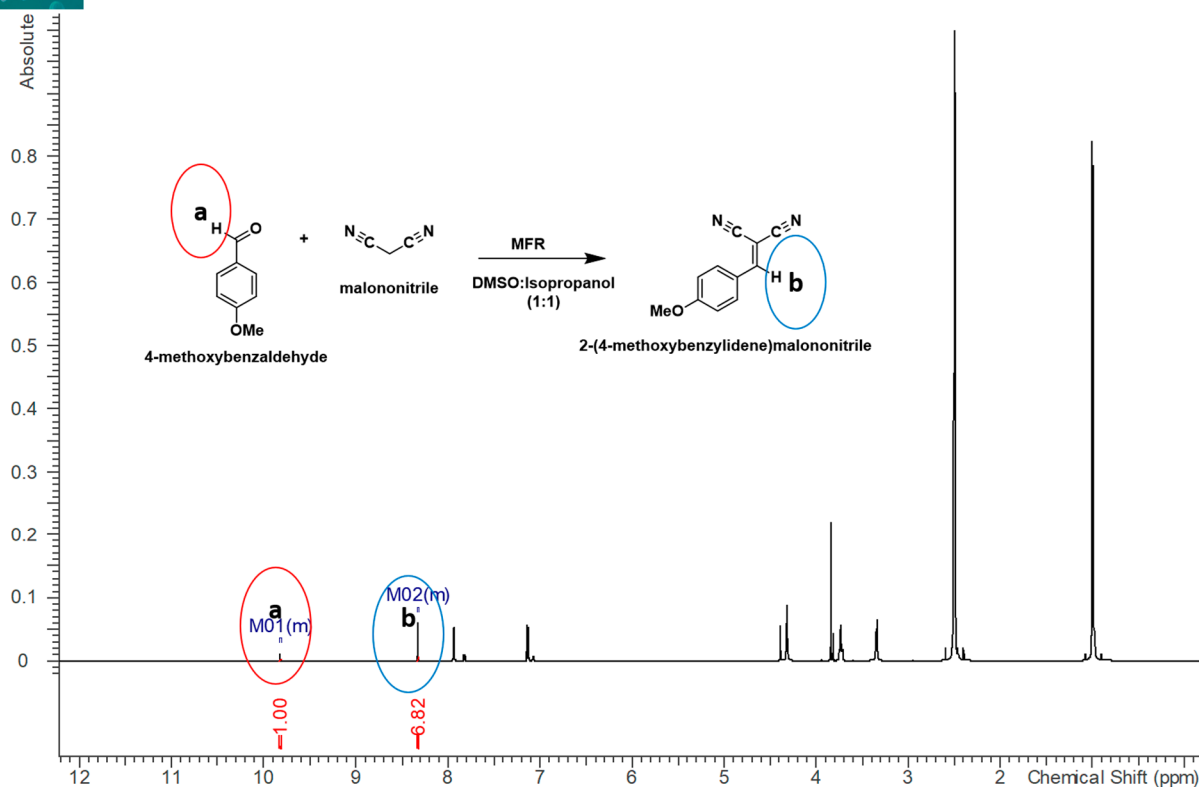


Figure S3: ^1H spectra for determination of conversion of the reaction between 4-methoxy benzaldehyde and malononitrile using polymeric gel composition B in solvent mixture, DMSO:IP (v:v=1:1) for 8 h.

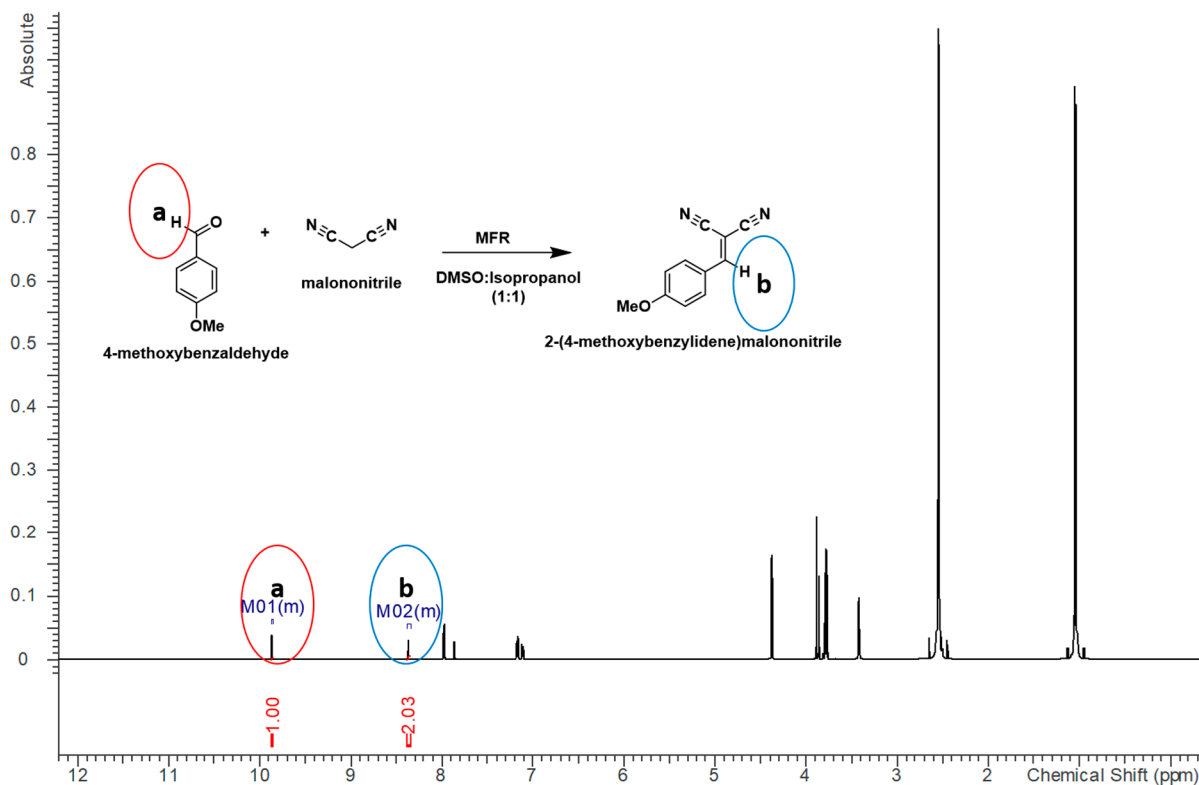


Figure S4: ^1H spectra for determination of conversion of the reaction between 4-methoxy benzaldehyde and malononitrile using polymeric gel composition C in solvent mixture, DMSO:IP (v:v=1:1) for 8 h.

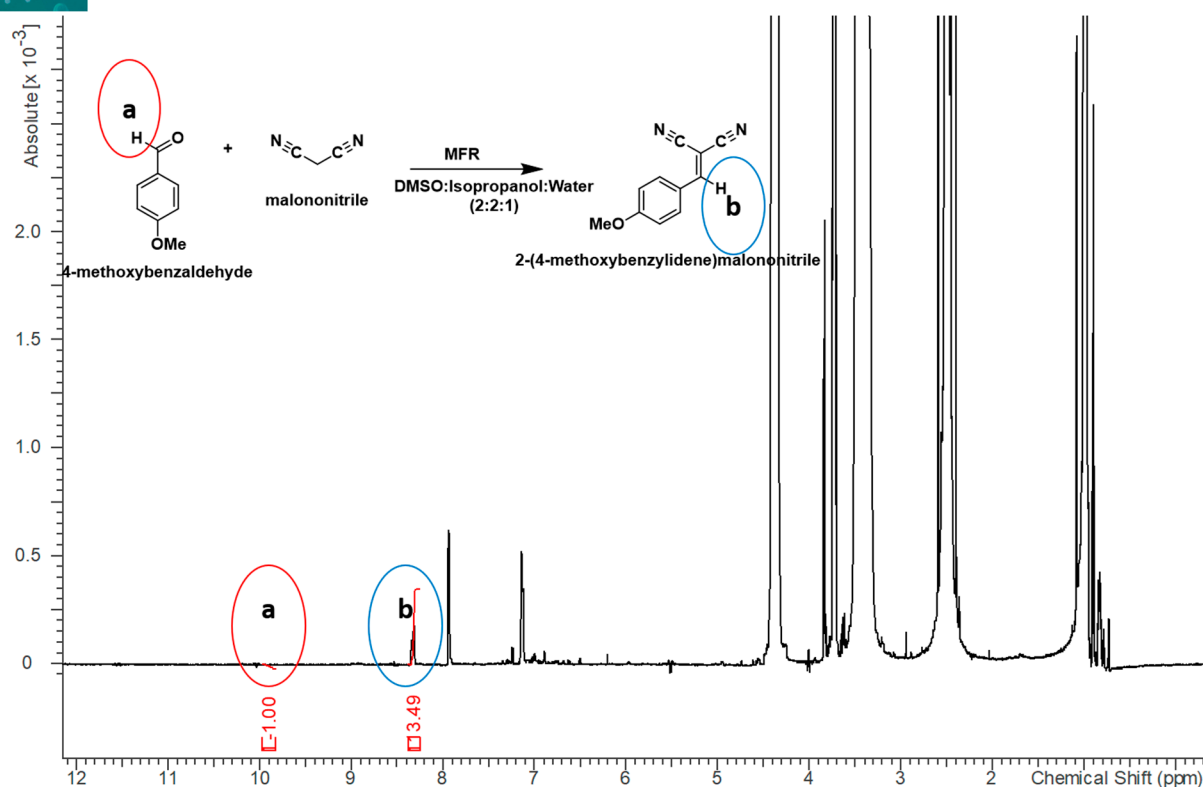


Figure S5: ^1H spectra for determination of conversion of the reaction between 4-methoxy benzaldehyde and malononitrile using polymeric gel composition A in solvent mixture, DMSO:IP:W (v:v:v=2:2:1) for 8 h.

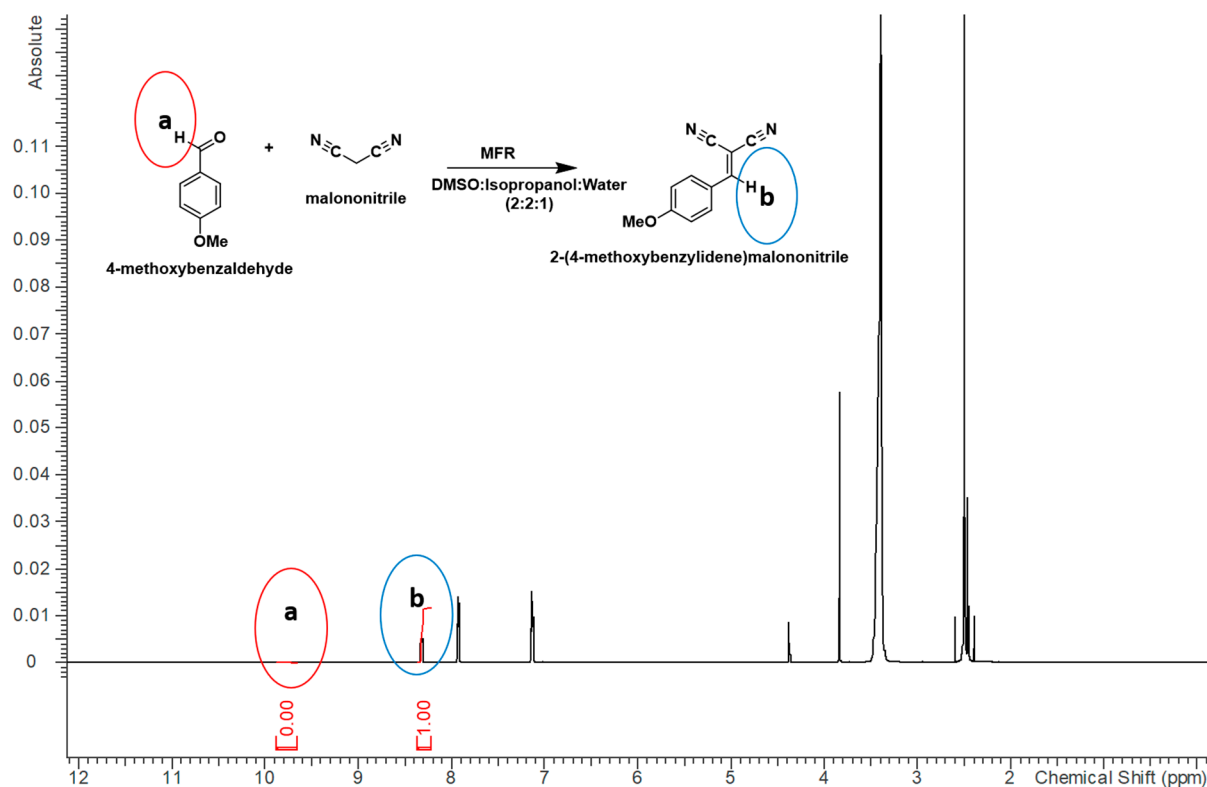


Figure S6: ^1H spectra for determination of conversion of the reaction between 4-methoxy benzaldehyde and malononitrile using polymeric gel composition B in solvent mixture, DMSO:IP:W (v:v:v=2:2:1) for 8 h.

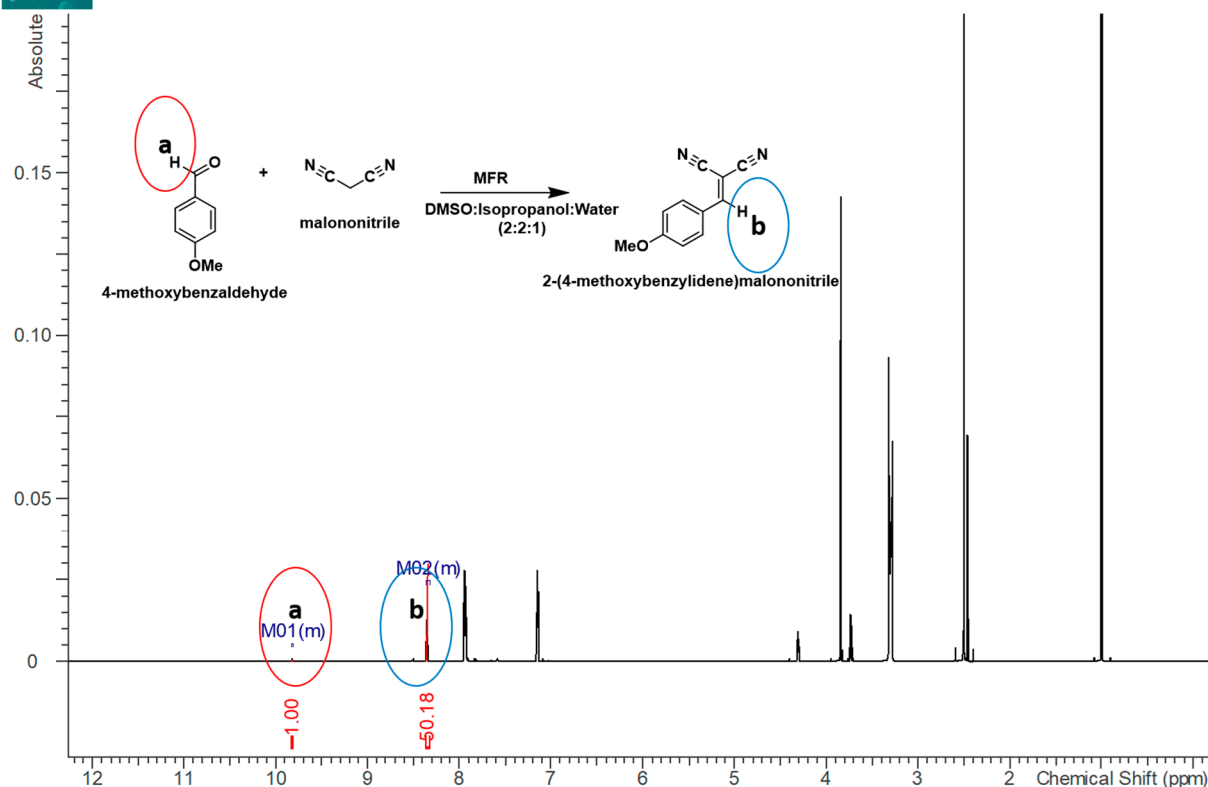


Figure S7: ^1H spectra for determination of conversion of the reaction between 4-methoxy benzaldehyde and malononitrile using polymeric gel composition C in solvent mixture, DMSO:IP:W (v:v:v=2:2:1) for 8 h.

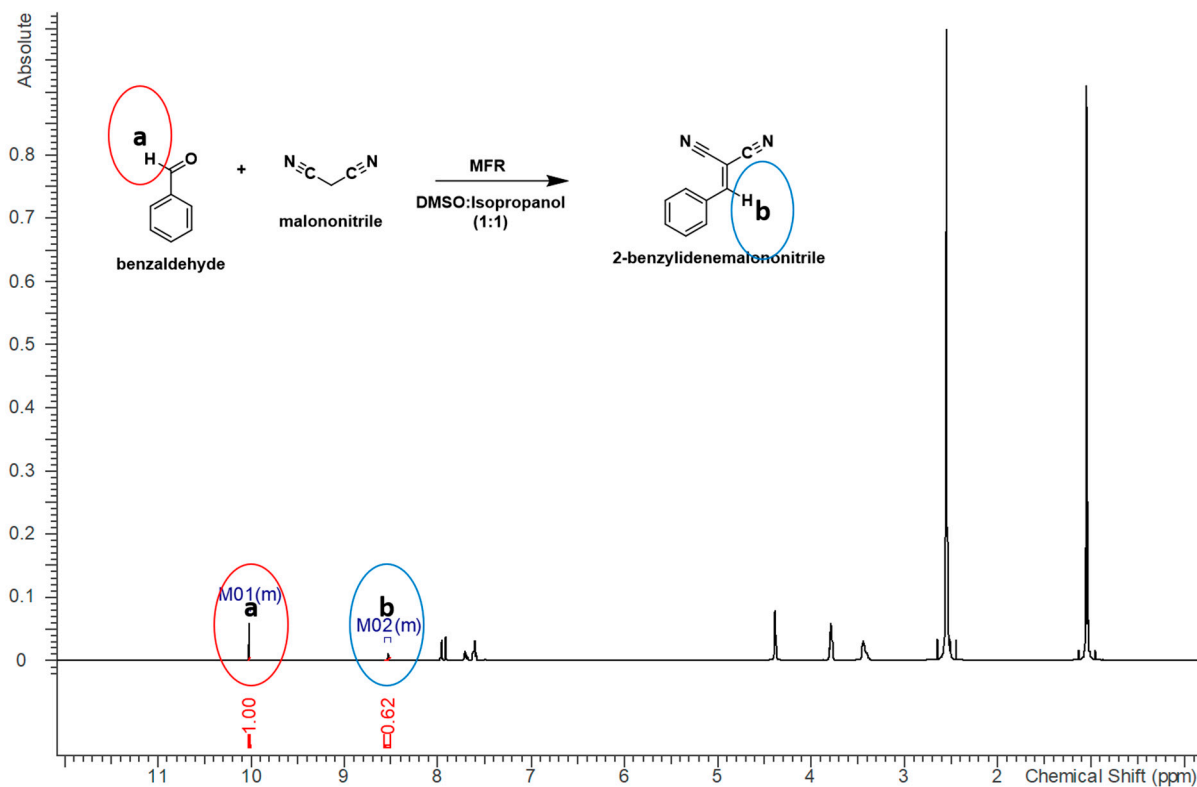


Figure S8: ^1H spectra for determination of conversion of the reaction between benzaldehyde and malononitrile using polymeric gel composition A in solvent mixture, DMSO:IP (v:v=1:1) for 8 h.

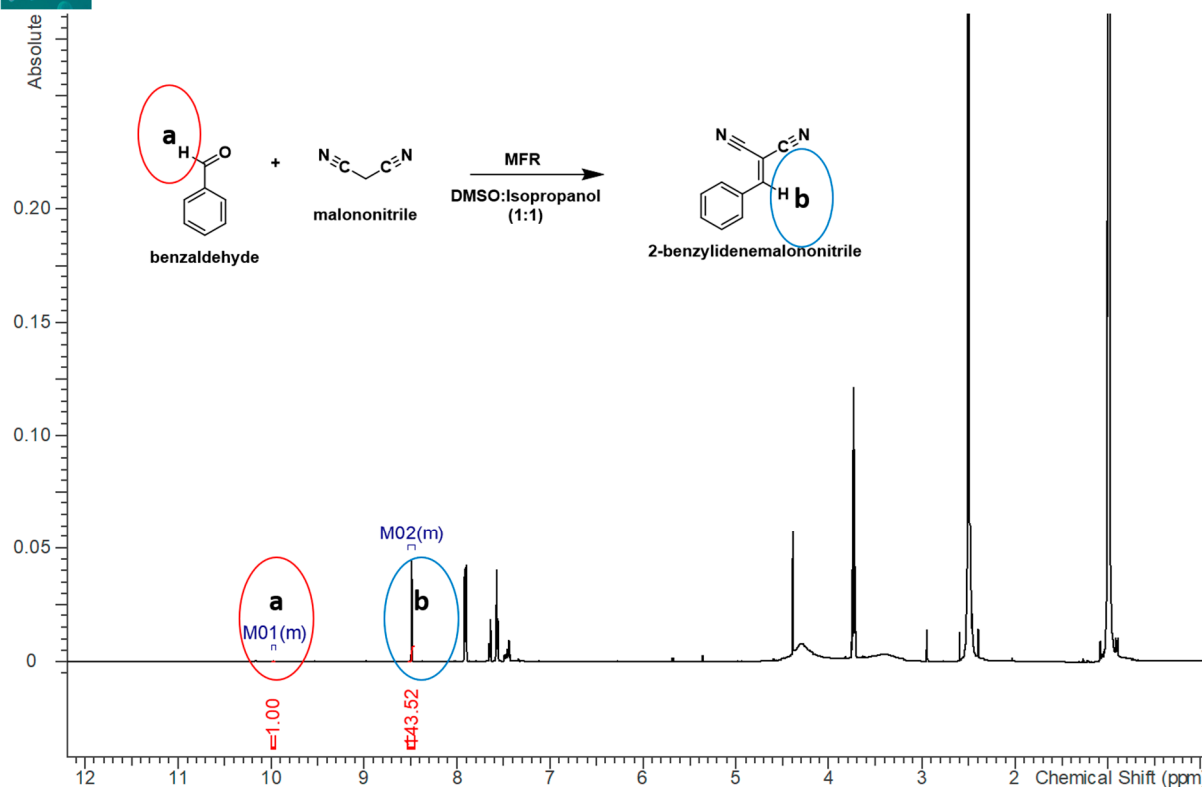


Figure S9: ^1H spectra for determination of conversion of the reaction between benzaldehyde and malononitrile using polymeric gel composition B in solvent mixture, DMSO:IP (v:v=1:1) for 8 h.

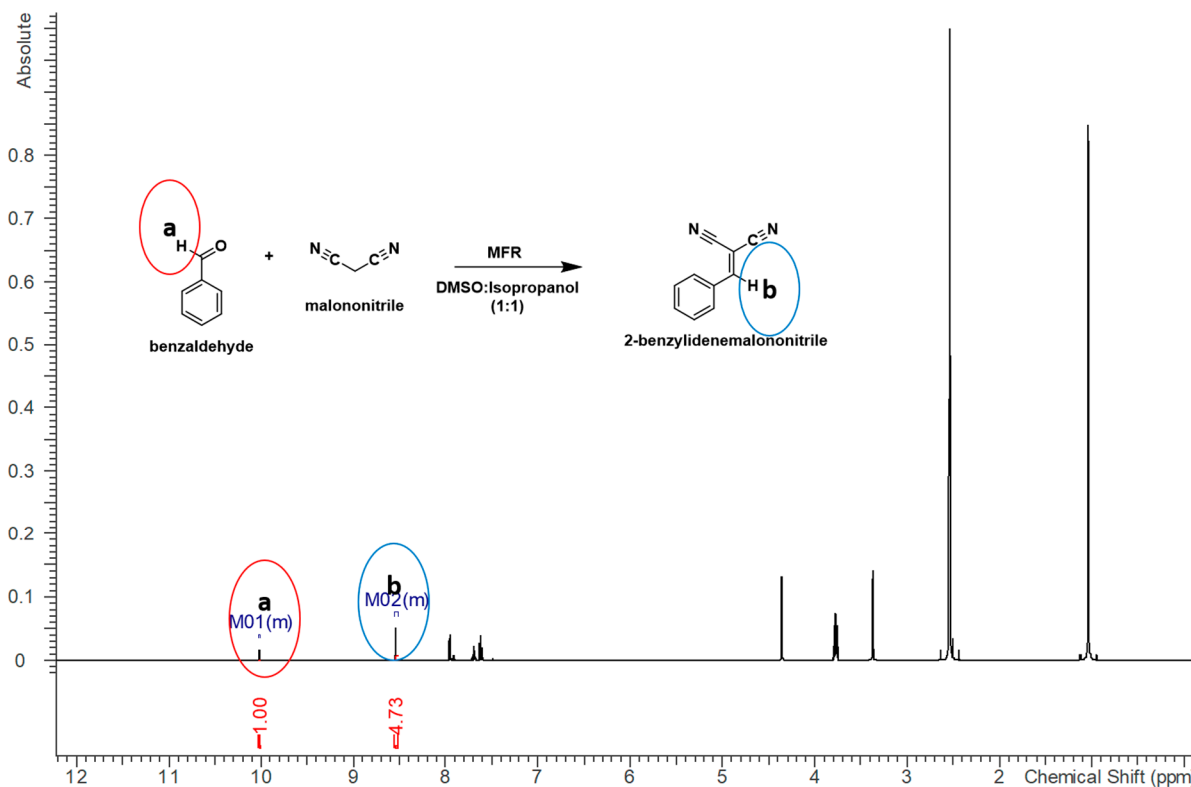


Figure S10: ^1H spectra for determination of conversion of the reaction between benzaldehyde and malononitrile using polymeric gel composition C in solvent mixture, DMSO:IP (v:v=1:1) for 8 h.

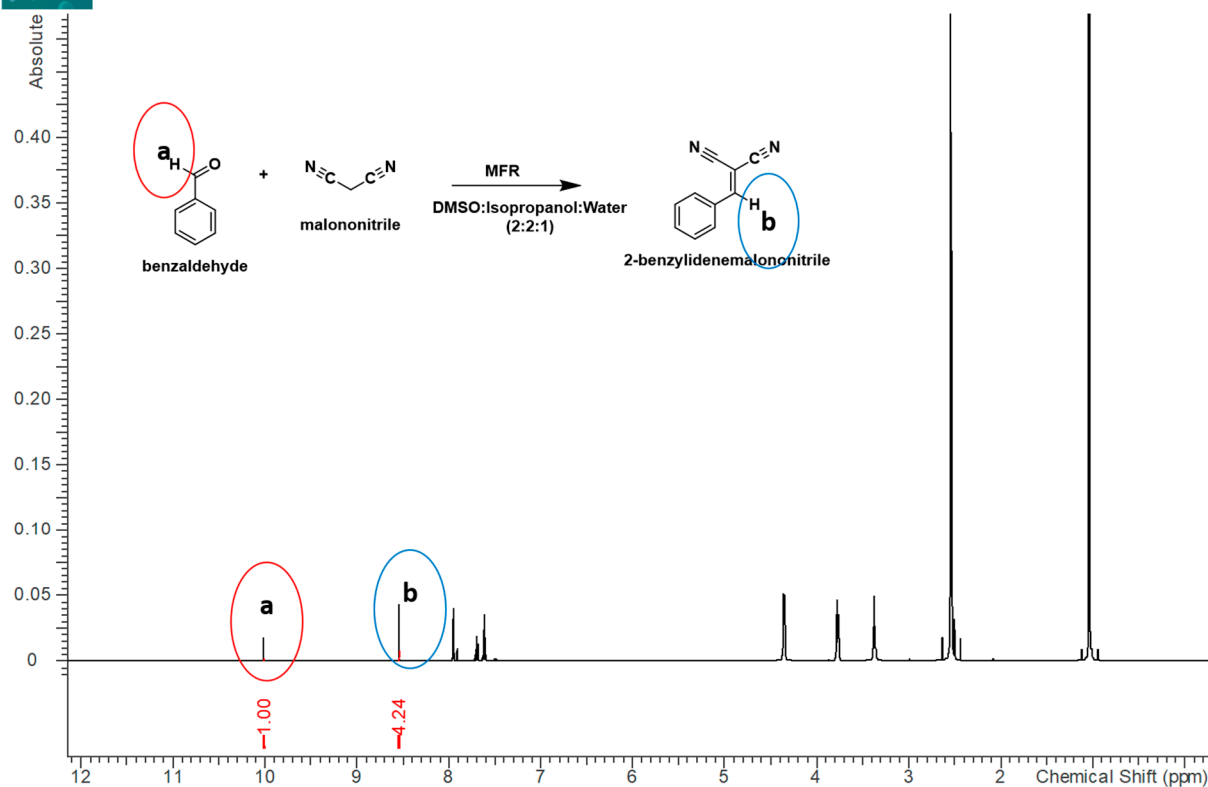


Figure S11: ^1H spectra for determination of conversion of the reaction between benzaldehyde and malononitrile using polymeric gel composition A in solvent mixture, DMSO:IP.W (v:v:v=2:2:1) for 8 h.

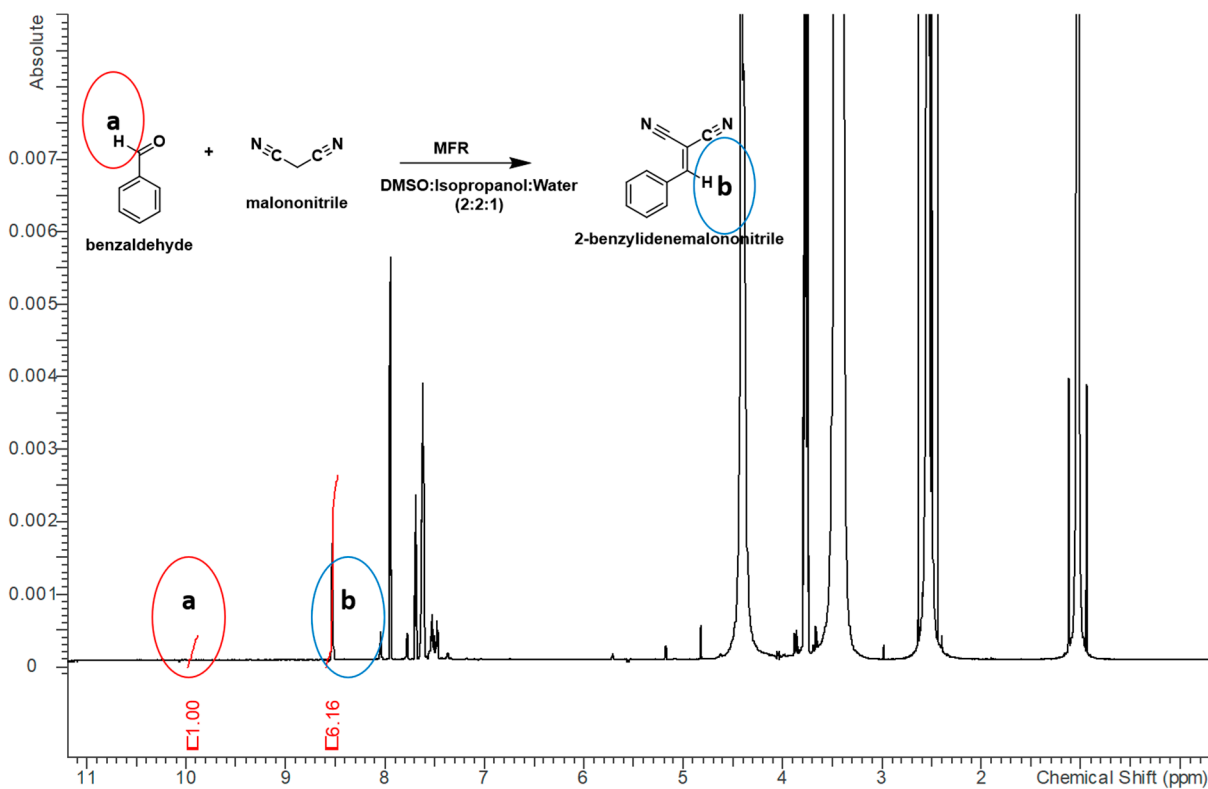


Figure S12: ^1H spectra for determination of Conversion of reaction between benzaldehyde and malononitrile using polymeric gel composition B in solvent mixture, DMSO:IP.W (v:v:v=2:2:1) for 8 h.

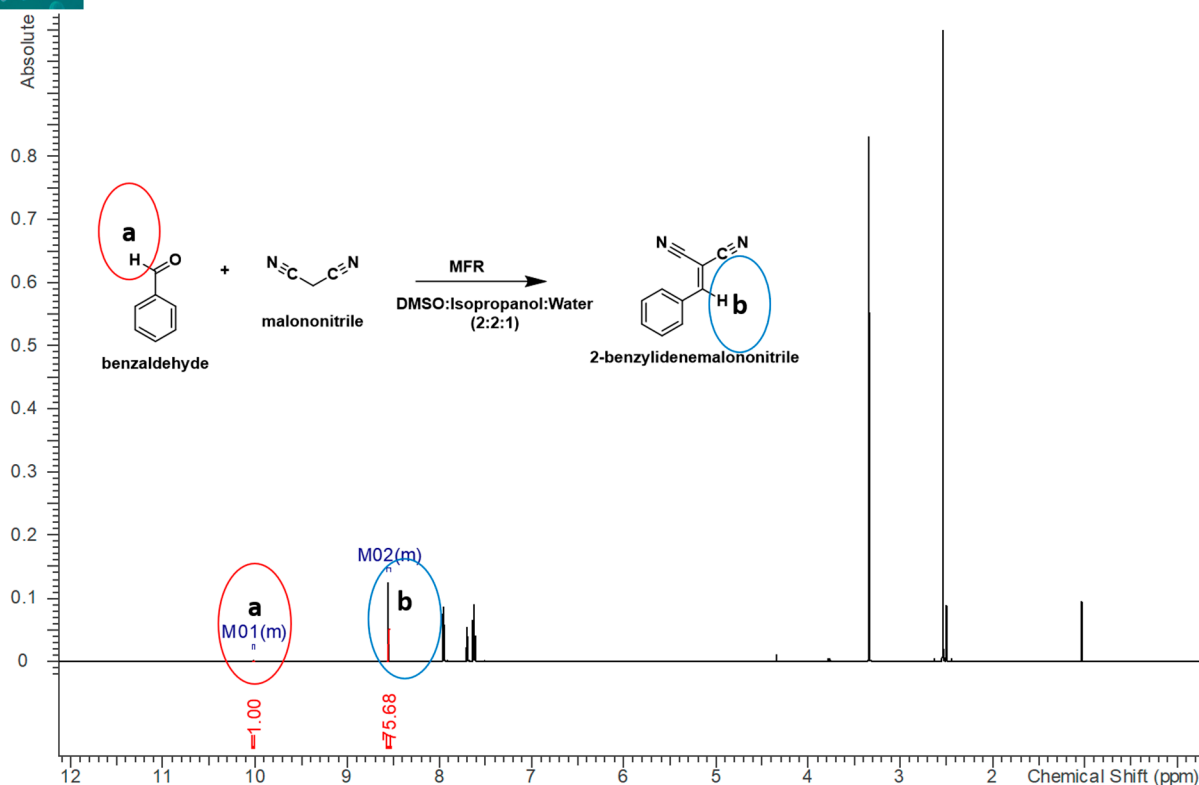


Figure S13: ^1H spectra for determination of Conversion of reaction between benzaldehyde and malononitrile using polymeric gel composition C in solvent mixture, DMSO:IP.W (v:v=2:2:1) for 8 h.

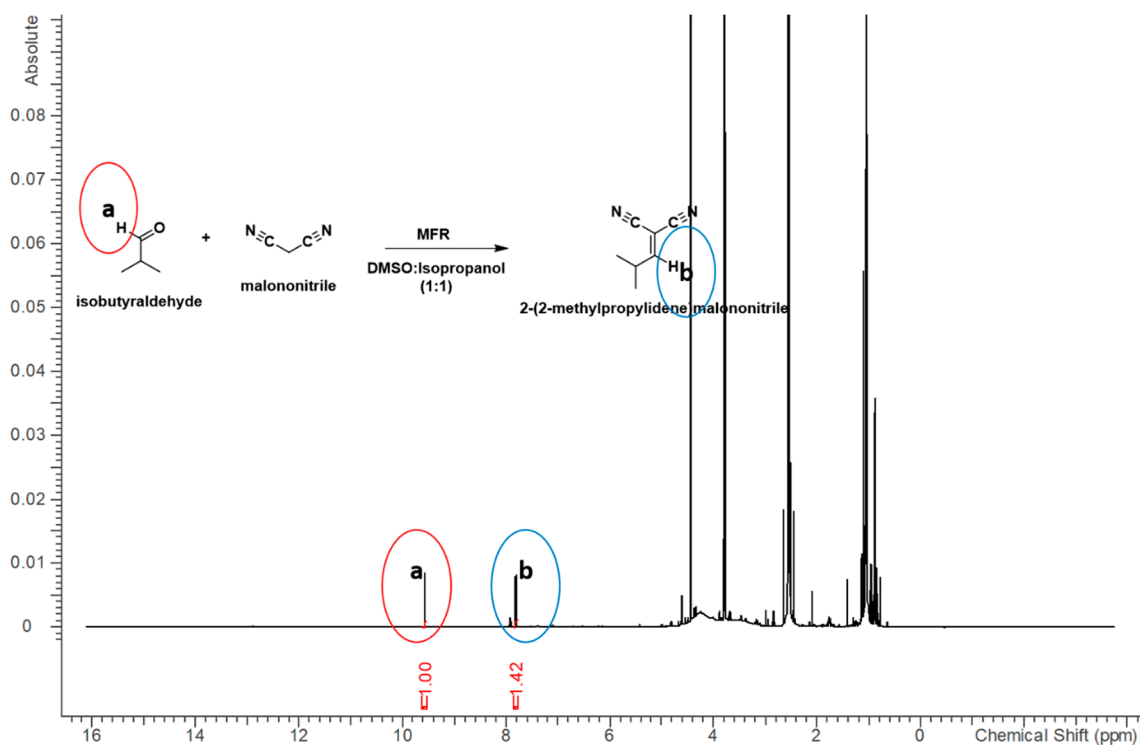


Figure S14: ^1H spectra for determination of conversion of reaction between isobutyraldehyde and malononitrile using polymeric gel composition A in solvent mixture, DMSO:IP (v:v=1:1) for 8 h.

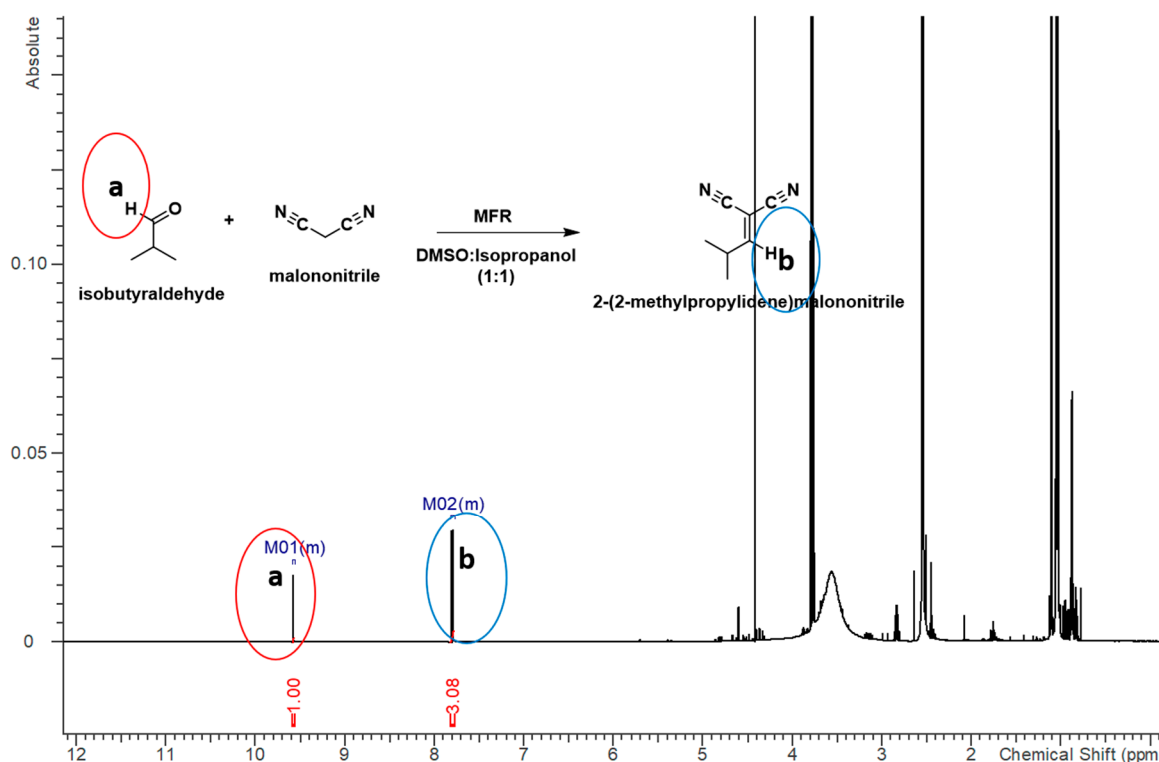


Figure S15: ^1H spectra for determination of conversion of reaction between isobutyraldehyde and malononitrile using polymeric gel composition B in solvent mixture, DMSO:IP (v:v=1:1) for 8 h.

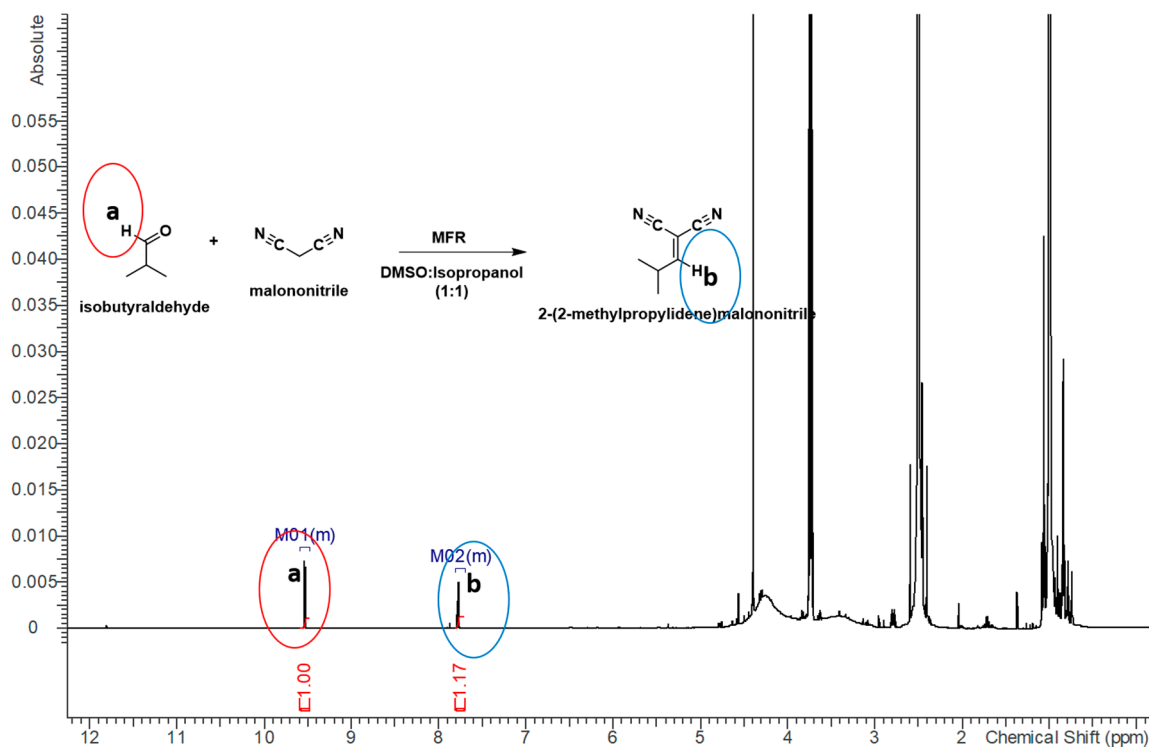


Figure S16: ^1H spectra for determination of conversion of reaction between isobutyraldehyde and malononitrile using polymeric gel composition C in solvent mixture, DMSO:IP (v:v=1:1) for 8 h.

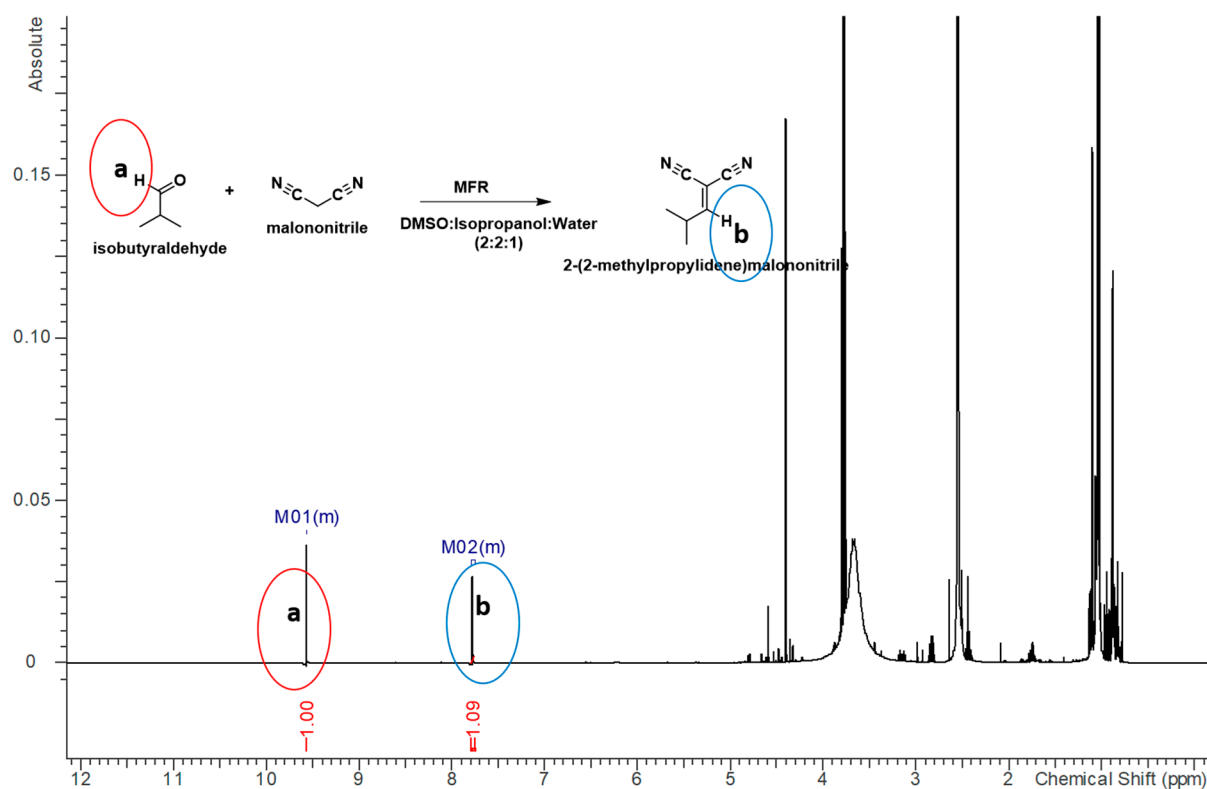


Figure S17: ^1H spectra for determination of conversion of reaction between isobutyraldehyde and malononitrile using polymeric gel composition A in solvent mixture, DMSO:IP.W (v:v:v=2:2:1) for 8 h.

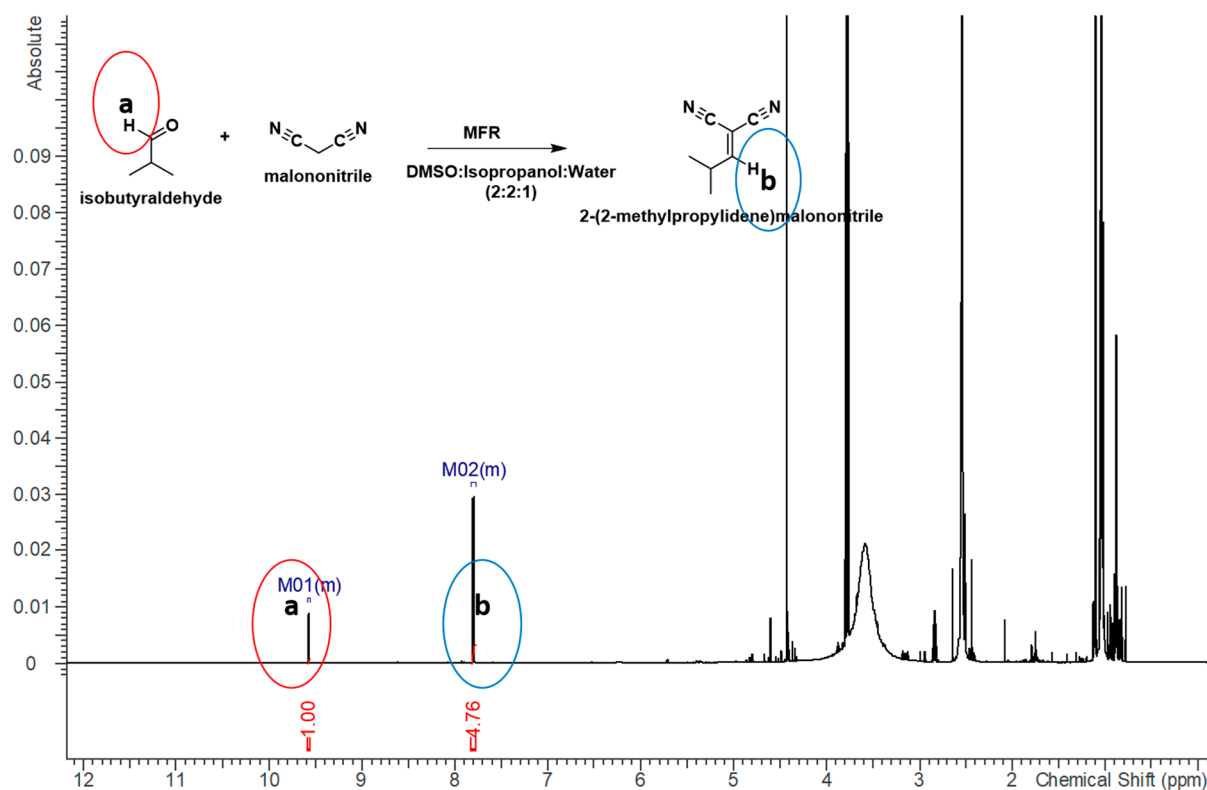


Figure S18: ^1H spectra for determination of conversion of reaction between isobutyraldehyde and malononitrile using polymeric gel composition B in solvent mixture, DMSO:IP.W (v:v:v=2:2:1) for 8 h.

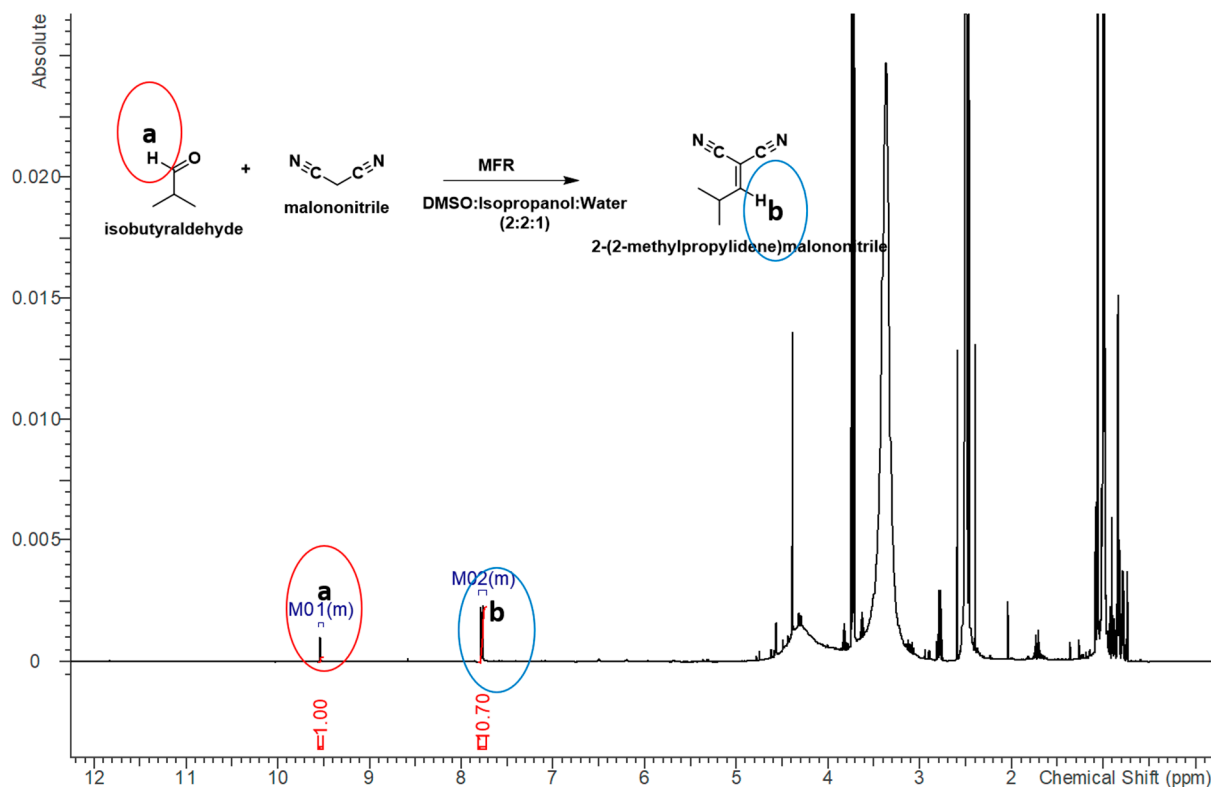


Figure S19: ^1H spectra for determination of conversion of reaction between isobutyraldehyde and malononitrile using polymeric gel composition C in solvent mixture, DMSO:IP.W (v:v:v=2:2:1) for 8 h.

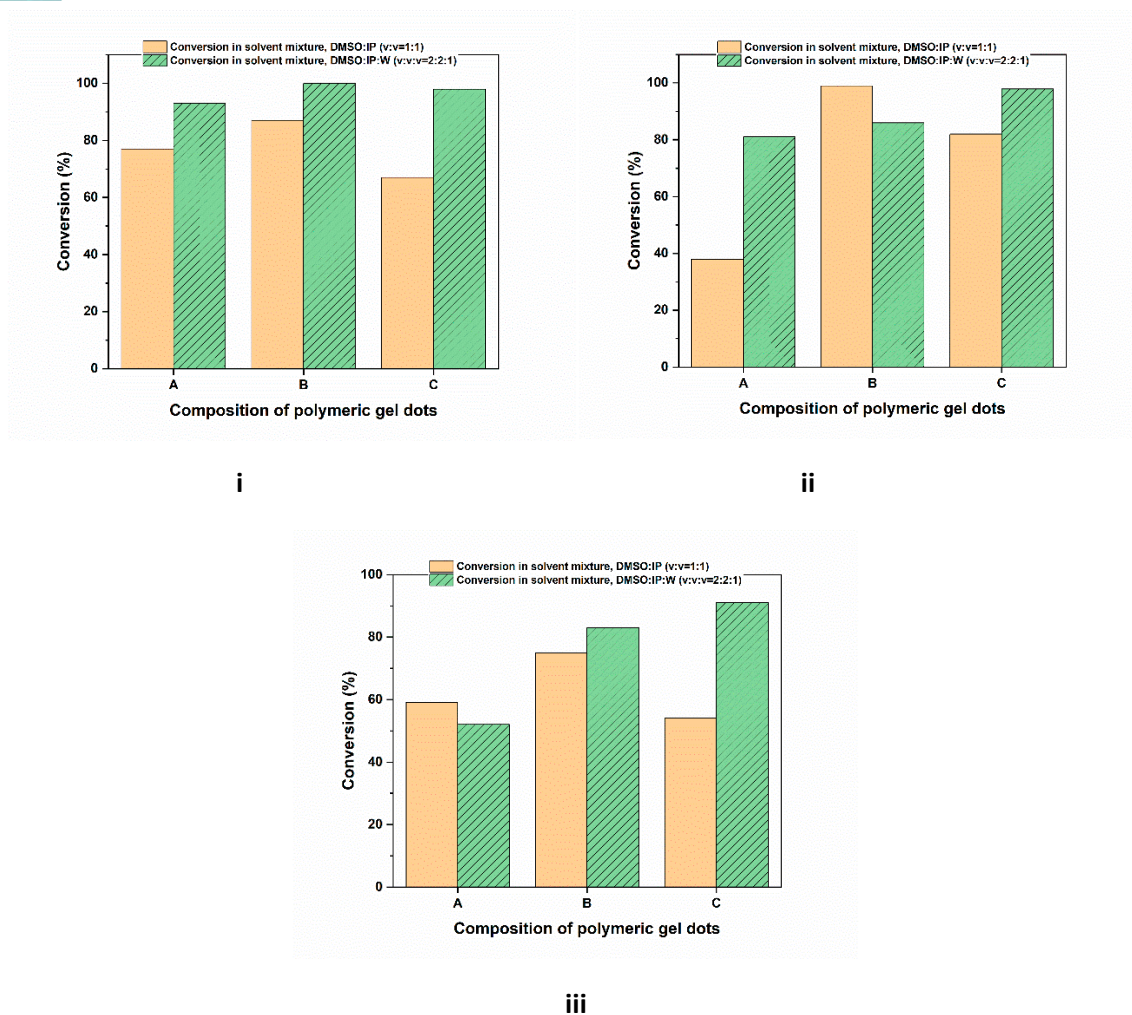


Figure S20: Conversion of the reaction with malononitrile and different aldehydes i) 4-methoxybenzaldehyde, ii) benzaldehyde and iii) isobutyraldehyde using various polymeric gel dots compositions A, B and C for 8 h.