



Cite this: *Polym. Chem.*, 2020, **11**, 2457

DOI: 10.1039/d0py90036b
rsc.li/polymers

Correction: Synthetic approaches for multiblock copolymers

Valentin P. Beyer,^{a,b} Jungyeon Kim^a and C. Remzi Becer^{*a}

Correction for 'Synthetic approaches for multiblock copolymers' by Valentin P. Beyer *et al.*, *Polym. Chem.*, 2020, **11**, 1271–1291.

After publication, the authors were made aware of some errors in Tables 1 and 2 in the original article. The corrected Tables and references are shown below.

Table 1 Summary of multiblock copolymers (MBCs) prepared by anionic or cationic polymerisation techniques^a

| Monomers | Block number | Block structure | Solvent | <i>T</i> (°C) | PDI | Ref. in original article | Ref. in this Correction |
|-------------------------------------|--------------|------------------------|-------------|---------------|-------|--------------------------|-------------------------|
| S, I, CHD, B | 4 | ABCD | THF | −78 | 1.32 | 41 | 1 |
| S, I, 2VP, <i>t</i> -BuMA, EO | 5 | ABCBA | THF | −78 | ≤1.5 | 42 | 2 |
| C, E, P | 12 | (ABABA) ₂ C | Cyclohexane | 40 | 1.09 | 43 | 3 |
| I, 4MS | 10 | (AB) ₅ | Cyclohexane | 30 | ≤1.25 | 65 | 4 |
| I, S | 10 | (AB) ₅ | THF | −78 | 1.06 | 45 | 5 |
| EO, S, B | 4 | ABCA | Cyclohexane | 40 | 1.21 | 46 | 6 |
| S, I, DMS, 2VP | 4 | ABCD | Benzene | 40 | ≤1.07 | 47 | 7 |
| dcPA, <i>n</i> BA, EHA, EA, MA, cHA | 6 | ABCDEF | Tol | 25 | 1.05 | 48 | 8 |
| THFMA, DEAEMA, EtMA, MEGMA, DMAEMA | 15 | (ABCDE) ₃ | THF | 25 | ≤1.3 | 49 | 9 |
| MeOx, EtOx, PhOx, NonOx | 4 | ABCD | MeCN | 140 | 1.33 | 50, 51 | 10, 11 |
| EO, TsMAz | 5 | ABABA | THF/DMSO | 60 | ≤1.30 | 52 | 12 |

^a Monomers were abbreviated as follows: cyclohexadiene (CHD), styrene (S), isoprene (I), butadiene (B), 2-vinylpyridine (2VP), *tert*-butyl methacrylate (*t*-BuMA), ethylene oxide (EO), ethylene (E), cyclohexylethylene (C), ethylene-*alt*-propylene (P), 4-methyl styrene (4MS), dimethyl siloxane (DMS), dicyclopentanyl acrylate (dcPA), *n*-butyl acrylate (*n*BA), 2-ethylhexyl acrylate (EHA), ethyl acrylate (EA), methyl acrylate (MA), cyclohexyl acrylate (cHA), ethyl methacrylate (EtMA), (dimethylamino)ethyl methacrylate (DMAEMA), 2-(diethylamino)ethyl methacrylate (DEAEMA), tetrahydrofurfuryl methacrylate (THFMA), ethylene glycol methyl ether methacrylate (MEGMA), 2-methyl-2-oxazoline (MeOx), 2-ethyl-2-oxazoline (EtOx), 2-phenyl-2-oxazoline (PhOx), 2-nonyl-2-oxazoline (NonOx), 2-methyl-*N*-tosylaziridine (TsMAz).

Table 2 Examples of MBCs prepared by ROMP^a

| Monomers | Block number | Block structure | Block DP | Solvent | Time/block (h) | <i>T</i> (°C) | Ref. in original article | Ref. in this Correction |
|----------|--------------|-----------------|------------------------|-------------------|-----------------|---------------|--------------------------|-------------------------|
| N | 4 | ABCD | 50 : 5 : 10 : 5 | Tol | 0.5 | RT | 89 | 13 |
| Nb | 5 | ABABA | 44 : 35 : 44 : 35 : 44 | DCM | 1 | RT | 90 | 14 |
| Nb | 4 | ABAB | 15 : 10 : 10 : 10 | CHCl ₃ | 2 : 19 : 4 : 24 | RT | 91 | 15 |
| Nb | 4 | ABCD | 50 : 25 : 25 : 25 | Tol | 1 : 1 : 1 : 1.5 | RT | 92 | 16 |
| Co, MO | 4 | ABAB | 50 : 5 : 10 : 5 | Tol | 0.5 | RT | — | 17 |

^a Monomers were abbreviated as follows: norbornenediol (N), norbornene (Nb), cyclooctene (Co), macrocyclic olefin (MO). Other abbreviations: dichloromethane (DCM), toluene (Tol), degree of polymerisation (DP).

The Royal Society of Chemistry apologises for these errors and any consequent inconvenience to authors and readers.

^aDepartment of Chemistry, University of Warwick, Coventry, CV4 7AL, UK. E-mail: remzi.becer@warwick.ac.uk

^bPolymer Chemistry Laboratory, School of Engineering and Materials Science, Queen Mary University of London, London, E1 4NS, UK



References

- 1 T. Tsoukatos, A. Avgeropoulos, N. Hadjichristidis, K. Hong and J. W. Mays, *Macromolecules*, 2002, **35**, 7928–7935.
- 2 N. Ekizoglou and N. Hadjichristidis, *J. Polym. Sci., Part A: Polym. Chem.*, 2002, **40**, 2166–2170.
- 3 G. Fleury and F. S. Bates, *Macromolecules*, 2009, **42**, 3598–3610.
- 4 E. Grune, M. Appold, A. H. E. Müller, M. Gallei and H. Frey, *ACS Macro Lett.*, 2018, **7**, 807–810.
- 5 M. Steube, T. Johann, E. Galanos, M. Appold, C. Rüttiger, M. Mezger, M. Gallei, A. H. E. Müller, G. Floudas and H. Frey, *Macromolecules*, 2018, **51**, 10246–10258.
- 6 A. Touris, S. Lee, M. A. Hillmyer and F. S. Bates, *ACS Macro Lett.*, 2012, **1**, 768–771.
- 7 P. G. Fragouli, H. Iatrou and N. Hadjichristidis, *J. Polym. Sci., Part A: Polym. Chem.*, 2004, **42**, 514–519.
- 8 K. Takada, T. Ito, K. Kitano, S. Tsuchida, Y. Takagi, Y. Chen, T. Satoh and T. Kakuchi, *Macromolecules*, 2015, **48**, 511–519.
- 9 D. R. Carroll, A. P. Constantinou, N. Stingelin and T. K. Georgiou, *Polym. Chem.*, 2018, **9**, 3450–3454.
- 10 C. A. Fustin, H. Huang, R. Hoogenboom, F. Wiesbrock, A. M. Jonas, U. S. Schubert and J. F. Gohy, *Soft Matter*, 2007, **3**, 79–82.
- 11 R. Hoogenboom, F. Wiesbrock, M. A. M. Leenen, H. M. L. Thijs, H. Huang, C. A. Fustin, P. Guillet, J. F. Gohy and U. S. Schubert, *Macromolecules*, 2007, **40**, 2837–2843.
- 12 T. Gleede, E. Rieger, J. Blankenburg, K. Klein and F. R. Wurm, *J. Am. Chem. Soc.*, 2018, **140**, 13407–13412.
- 13 D. M. Watkins and M. A. Fox, *Macromolecules*, 1995, **28**, 4939–4950.
- 14 M. A. Rahman, H. N. Lokupitiya, M. S. Ganewatta, L. Yuan, M. Stefik and C. Tang, *Macromolecules*, 2017, **50**, 2069–2077.
- 15 Y. Miyamoto, M. Fujiki and K. Nomura, *J. Polym. Sci., Part A: Polym. Chem.*, 2004, **42**, 4248–4265.
- 16 K. Nomura and R. R. Schrock, *Macromolecules*, 1996, **29**, 540–545.
- 17 M. Xie, W. Wang, L. Ding, J. Liu, D. Yang, L. Wei and Y. Zhang, *J. Polym. Sci., Part A: Polym. Chem.*, 2010, **48**, 380–388.

