

**Solubility of selected homopolymers synthesized at
Polymer Source Inc. ***

| Polymer | Solvents for solubility | | | | | |
|-----------------------------------|-------------------------|-------------------|---------------------|---------|---------------|--------|
| | THF | CHCl ₃ | DMF/Dioxane (DO) | Toluene | MeOH/ EtOH | Water |
| Polystyrene | √ | √ | √ | √ | | |
| Poly(methyl acrylate) | √ | √ | | √ | | |
| Poly(methyl methacrylate) | √ | √ | DO | √ | | |
| Poly(n-butyl acrylate) | √ | √ | | √ | | |
| Poly(2-hydroxyethyl methacrylate) | | | DMF | | EtOH | |
| Poly(glycidyl methacrylate) | √ | √ | DO | √ | | |
| Poly(□-propyl acrylic acid) | √ | | DO | | √ | |
| Poly(acrylic acid) | √ | | | | √ | √ |
| Poly(acrylamide) | | | | | | √ |
| Poly(N-N-dimethylacrylamide) | | | | | √ | √ |
| Poly(1-4 Cyclohexadiene) | Partially soluble | | | | | |
| Poly(1-vinyl anthracene) | √ | √ | √ | √ | | |
| Poly(2-vinyl pyridine) | √ | √ | √ | √ | √ | |
| Poly(4-vinyl pyridine) | √ | √ | √ | √ | √ | |
| Poly(N-vinyl carbazole) | √ | √ | √ | √ | | |
| Poly(N-vinyl carbazole) | √ | √ | √ | √ | | |
| Poly(N-vinyl imidazole) | | | | | √ (MeOH) | √ |
| Poly(vinyl benzyl chloride) | √ | √ | √ | √ | | |
| Poly(4-vinyl benzoic acid) | | | √ | | √ | |
| Poly(Vinyl Acetate) | √ | √ | | √ | | |
| Polycaprolactone | √ | √ | √ | √ | | |
| Poly lactide | √ | √ | √ | √ | | |
| NIPAM | √ | | √ (DMF) | | | √ |
| Poly(AzoMA) | √ | √ | | | Acetone | |
| DMS | | | | √ | | Hexane |
| Poly(ferrocenyldimethylsilane) | √ | √ | | √ | | |
| Polyisoprene | √ | | | √ | | Hexane |
| Polybutadiene | √ | | | √ | | Hexane |
| Polyisobutylene | √ | | | √ | | Hexane |
| Poly propylene glycol | √ | √ | | √ | √ | |
| Poly(ethylene glycol) | √ | √ | | √ | | √ |

*This table is intended for the preliminary idea on polymer solubility; users should verify each polymer before their experiment.