

Figure 1. The effect of the concentration of the inhibitor on the rate of polymerization of the monomer. The reaction conditions were: $[M] = 0.05 \text{ mol/L}$, $[AIBN] = 0.001 \text{ mol/L}$, $[I] = 0.001 \text{ mol/L}$, $[I] = 0.002 \text{ mol/L}$, $[I] = 0.004 \text{ mol/L}$, $[I] = 0.008 \text{ mol/L}$, $[I] = 0.016 \text{ mol/L}$, $[I] = 0.032 \text{ mol/L}$, $[I] = 0.064 \text{ mol/L}$, $[I] = 0.128 \text{ mol/L}$, $[I] = 0.256 \text{ mol/L}$, $[I] = 0.512 \text{ mol/L}$, $[I] = 1.024 \text{ mol/L}$, $[I] = 2.048 \text{ mol/L}$, $[I] = 4.096 \text{ mol/L}$, $[I] = 8.192 \text{ mol/L}$, $[I] = 16.384 \text{ mol/L}$, $[I] = 32.768 \text{ mol/L}$, $[I] = 65.536 \text{ mol/L}$, $[I] = 131.072 \text{ mol/L}$, $[I] = 262.144 \text{ mol/L}$, $[I] = 524.288 \text{ mol/L}$, $[I] = 1048.576 \text{ mol/L}$, $[I] = 2097.152 \text{ mol/L}$, $[I] = 4194.304 \text{ mol/L}$, $[I] = 8388.608 \text{ mol/L}$, $[I] = 16777.216 \text{ mol/L}$, $[I] = 33554.432 \text{ mol/L}$, $[I] = 67108.864 \text{ mol/L}$, $[I] = 134217.728 \text{ mol/L}$, $[I] = 268435.456 \text{ mol/L}$, $[I] = 536870.912 \text{ mol/L}$, $[I] = 1073741.824 \text{ mol/L}$, $[I] = 2147483.648 \text{ mol/L}$, $[I] = 4294967.296 \text{ mol/L}$, $[I] = 8589934.592 \text{ mol/L}$, $[I] = 17179869.184 \text{ mol/L}$, $[I] = 34359738.368 \text{ mol/L}$, $[I] = 68719476.736 \text{ mol/L}$, $[I] = 137438953.472 \text{ mol/L}$, $[I] = 274877906.944 \text{ mol/L}$, $[I] = 549755813.888 \text{ mol/L}$, $[I] = 1099511627.776 \text{ mol/L}$, $[I] = 2199023255.552 \text{ mol/L}$, $[I] = 4398046511.104 \text{ mol/L}$, $[I] = 8796093022.208 \text{ mol/L}$, $[I] = 17592186044.416 \text{ mol/L}$, $[I] = 35184372088.832 \text{ mol/L}$, $[I] = 70368744177.664 \text{ mol/L}$, $[I] = 140737488355.328 \text{ mol/L}$, $[I] = 281474976710.656 \text{ mol/L}$, $[I] = 562949953421.312 \text{ mol/L}$, $[I] = 1125899906842.624 \text{ mol/L}$, $[I] = 2251799813685.248 \text{ mol/L}$, $[I] = 4503599627370.496 \text{ mol/L}$, $[I] = 9007199254740.992 \text{ mol/L}$, $[I] = 18014398509481.984 \text{ mol/L}$, $[I] = 36028797018963.968 \text{ 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