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Abstract

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11. *Journal of the American Medical Association*, 2000; 284: 2689-2695.

Figure 1. The effect of the concentration of the inhibitor on the rate of polymerization of methyl methacrylate in benzene at 60°C. The concentration of the initiator was 0.001 mole/l. and the concentration of the monomer was 0.5 mole/l. The concentration of the inhibitor was 0.001 mole/l. (○), 0.002 mole/l. (●), 0.004 mole/l. (▲), 0.008 mole/l. (△), 0.016 mole/l. (□), 0.032 mole/l. (◇), 0.064 mole/l. (◇), 0.128 mole/l. (◇), 0.256 mole/l. (◇), 0.512 mole/l. (◇), 1.024 mole/l. (◇), 2.048 mole/l. (◇), 4.096 mole/l. (◇), 8.192 mole/l. (◇), 16.384 mole/l. (◇), 32.768 mole/l. (◇), 65.536 mole/l. (◇), 131.072 mole/l. (◇), 262.144 mole/l. (◇), 524.288 mole/l. (◇), 1048.576 mole/l. (◇), 2097.152 mole/l. (◇), 4194.304 mole/l. (◇), 8388.608 mole/l. (◇), 16777.216 mole/l. (◇), 33554.432 mole/l. (◇), 67108.864 mole/l. (◇), 134217.728 mole/l. (◇), 268435.456 mole/l. (◇), 536870.912 mole/l. (◇), 1073741.824 mole/l. (◇), 2147483.648 mole/l. (◇), 4294967.296 mole/l. (◇), 8589934.592 mole/l. (◇), 17179869.184 mole/l. (◇), 34359738.368 mole/l. (◇), 68719476.736 mole/l. (◇), 137438953.472 mole/l. (◇), 274877906.944 mole/l. (◇), 549755813.888 mole/l. (◇), 1099511627.776 mole/l. (◇), 2199023255.552 mole/l. (◇), 4398046511.104 mole/l. (◇), 8796093022.208 mole/l. (◇), 17592186044.416 mole/l. (◇), 35184372088.832 mole/l. (◇), 70368744177.664 mole/l. (◇), 140737488355.328 mole/l. (◇), 281474976710.656 mole/l. (◇), 562949953421.312 mole/l. (◇), 1125899906842.624 mole/l. (◇), 2251799813685.248 mole/l. (◇), 4503599627370.496 mole/l. (◇), 9007199254740.992 mole/l. (◇), 18014398509481.984 mole/l. (◇), 36028797018963.968 mole/l. (◇), 72057594037927.936 mole/l. (◇), 144115188075855.872 mole/l. (◇), 288230376151711.744 mole/l. (◇), 576460752303423.488 mole/l. (◇), 1152921504606846.976 mole/l. (◇), 2305843009213693.952 mole/l. (◇), 4611686018427387.904 mole/l. (◇), 9223372036854775.808 mole/l. (◇), 18446744073709551.616 mole/l. (◇), 36893488147419103.232 mole/l. (◇), 73786976294838206.464 mole/l. (◇), 147573952589676412.928 mole/l. (◇), 295147905179352825.856 mole/l. (◇), 590295810358705651.712 mole/l. (◇), 1180591620717411303.424 mole/l. (◇), 2361183241434822606.848 mole/l. (◇), 4722366482869645213.696 mole/l. (◇), 9444732965739290427.392 mole/l. (◇), 18889465931478580854.784 mole/l. (◇), 37778931862957161709.568 mole/l. (◇), 75557863725914323419.136 mole/l. (◇), 151115727451828646838.272 mole/l. (◇), 302231454903657293676.544 mole/l. (◇), 604462909807314587353.088 mole/l. (◇), 1208925819614629174706.176 mole/l. (◇), 2417851639229258349412.352 mole/l. (◇), 4835703278458516698824.704 mole/l. (◇), 9671406556917033397649.408 mole/l. (◇), 19342813113834066795298.816 mole/l. (◇), 38685626227668133590597.632 mole/l. (◇), 77371252455336267181195.264 mole/l. (◇), 154742504910672534362390.528 mole/l. (◇), 309485009821345068724781.056 mole/l. (◇), 618970019642690137449562.112 mole/l. (◇), 1237940039285380274899124.224 mole/l. (◇), 2475880078570760549798248.448 mole/l. (◇), 4951760157141521099596496.896 mole/l. (◇), 9903520314283042199192993.792 mole/l. (◇), 19807040628566084398385987.584 mole/l. (◇), 39614081257132168796771975.168 mole/l. (◇), 79228162514264337593543950.336 mole/l. (◇), 158456325028528675187087900.672 mole/l. (◇), 316912650057057350374175801.344 mole/l. (◇), 633825300114114700748351602.688 mole/l. (◇), 1267650600228229401496703205.376 mole/l. (◇), 2535301200456458802993406410.752 mole/l. (◇), 5070602400912917605986812821.504 mole/l. (◇), 10141204801825835211973625643.008 mole/l. (◇), 20282409603651670423947251286.016 mole/l. (◇), 40564819207303340847894502572.032 mole/l. (◇), 81129638414606681695789005144.064 mole/l. (◇), 162259276829213363391578010288.128 mole/l. (◇), 324518553658426726783156020576.256 mole/l. (◇), 649037107316853453566312041152.512 mole/l. (◇), 1298074214633706907132624082305.024 mole/l. (◇), 2596148429267413814265248164610.048 mole/l. (◇), 5192296858534827628530496329220.096 mole/l. (◇), 10384593717069655257060992658440.192 mole/l. (◇), 20769187434139310514121985316880.384 mole/l. (◇), 41538374868278621028243970633760.768 mole/l. (◇), 83076749736557242056487941267521.536 mole/l. (◇), 166153499473114484112975882535043.072 mole/l. (◇), 332306998946228968225951765070086.144 mole/l. (◇), 664613997892457936451903530140172.288 mole/l. (◇), 1329227995784915872903807060280344.576 mole/l. (◇), 2658455991569831745807614120560689.152 mole/l. (◇), 5316911983139663491615228241121378.304 mole/l. (◇), 10633823966279326983230456482242756.608 mole/l. (◇), 21267647932558653966460912964485513.216 mole/l. (◇), 42535295865117307932921825928971026.432 mole/l. (◇), 85070591730234615865843651857942052.864 mole/l. (◇), 170141183460469231731687303715884105.728 mole/l. (◇), 340282366920938463463374607431768211.456 mole/l. (◇), 680564733841876926926749214863536422.912 mole/l. (◇), 1361129467683753853853498429727072845.824 mole/l. (◇), 2722258935367507707706996859454145691.648 mole/l. (◇), 5444517870735015415413993718908291383.296 mole/l. (◇), 10889035741470030830827987437816582766.592 mole/l. (◇), 21778071482940061661655974875633165533.184 mole/l. (◇), 43556142965880123323311949751266331066.368 mole/l. (◇), 87112285931760246646623899502532662132.736 mole/l. (◇), 174224571863520493293247799005065

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Figure 1. The effect of the concentration of the solution on the adsorption of the dye. The concentration of the solution was 0.01, 0.02, 0.03, 0.04, 0.05, 0.06, 0.07, 0.08, 0.09, 0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 1.0, 1.5, 2.0, 3.0, 4.0, 5.0, 6.0, 7.0, 8.0, 9.0, 10.0, 15.0, 20.0, 30.0, 40.0, 50.0, 60.0, 70.0, 80.0, 90.0, 100.0, 150.0, 200.0, 300.0, 400.0, 500.0, 600.0, 700.0, 800.0, 900.0, 1000.0, 1500.0, 2000.0, 3000.0, 4000.0, 5000.0, 6000.0, 7000.0, 8000.0, 9000.0, 10000.0, 15000.0, 20000.0, 30000.0, 40000.0, 50000.0, 60000.0, 70000.0, 80000.0, 90000.0, 100000.0, 150000.0, 200000.0, 300000.0, 400000.0, 500000.0, 600000.0, 700000.0, 800000.0, 900000.0, 1000000.0, 1500000.0, 2000000.0, 3000000.0, 4000000.0, 5000000.0, 6000000.0, 7000000.0, 8000000.0, 9000000.0, 10000000.0, 15000000.0, 20000000.0, 30000000.0, 40000000.0, 50000000.0, 60000000.0, 70000000.0, 80000000.0, 90000000.0, 100000000.0, 150000000.0, 200000000.0, 300000000.0, 400000000.0, 500000000.0, 600000000.0, 700000000.0, 800000000.0, 900000000.0, 1000000000.0, 1500000000.0, 2000000000.0, 3000000000.0, 4000000000.0, 5000000000.0, 6000000000.0, 7000000000.0, 8000000000.0, 9000000000.0, 10000000000.0, 15000000000.0, 20000000000.0, 30000000000.0, 40000000000.0, 50000000000.0, 60000000000.0, 70000000000.0, 80000000000.0, 90000000000.0, 100000000000.0, 150000000000.0, 200000000000.0, 300000000000.0, 400000000000.0, 500000000000.0, 600000000000.0, 700000000000.0, 800000000000.0, 900000000000.0, 1000000000000.0, 1500000000000.0, 2000000000000.0, 3000000000000.0, 4000000000000.0, 5000000000000.0, 6000000000000.0, 7000000000000.0, 8000000000000.0, 9000000000000.0, 10000000000000.0, 15000000000000.0, 20000000000000.0, 30000000000000.0, 40000000000000.0, 50000000000000.0, 60000000000000.0, 70000000000000.0, 80000000000000.0, 90000000000000.0, 100000000000000.0, 150000000000000.0, 200000000000000.0, 300000000000000.0, 400000000000000.0, 500000000000000.0, 600000000000000.0, 700000000000000.0, 800000000000000.0, 900000000000000.0, 1000000000000000.0, 1500000000000000.0, 2000000000000000.0, 3000000000000000.0, 4000000000000000.0, 5000000000000000.0, 6000000000000000.0, 7000000000000000.0, 8000000000000000.0, 9000000000000000.0, 10000000000000000.0, 15000000000000000.0, 20000000000000000.0, 30000000000000000.0, 40000000000000000.0, 50000000000000000.0, 60000000000000000.0, 70000000000000000.0, 80000000000000000.0, 90000000000000000.0, 100000000000000000.0, 150000000000000000.0, 200000000000000000.0, 300000000000000000.0, 400000000000000000.0, 500000000000000000.0, 600000000000000000.0, 700000000000000000.0, 800000000000000000.0, 900000000000000000.0, 1000000000000000000.0, 1500000000000000000.0, 2000000000000000000.0, 3000000000000000000.0, 4000000000000000000.0, 5000000000000000000.0, 6000000000000000000.0, 7000000000000000000.0, 8000000000000000000.0, 9000000000000000000.0, 10000000000000000000.0, 15000000000000000000.0, 20000000000000000000.0, 30000000000000000000.0, 40000000000000000000.0, 50000000000000000000.0, 60000000000000000000.0, 70000000000000000000.0, 80000000000000000000.0, 90000000000000000000.0, 100000000000000000000.0, 150000000000000000000.0, 200000000000000000000.0, 300000000000000000000.0, 400000000000000000000.0, 500000000000000000000.0, 600000000000000000000.0, 700000000000000000000.0, 800000000000000000000.0, 900000000000000000000.0, 1000000000000000000000.0, 1500000000000000000000.0, 2000000000000000000000.0, 3000000000000000000000.0, 4000000000000000000000.0, 5000000000000000000000.0, 6000000000000000000000.0, 7000000000000000000000.0, 8000000000000000000000.0, 9000000000000000000000.0, 10000000000000000000000.0, 15000000000000000000000.0, 20000000000000000000000.0, 30000000000000000000000.0, 40000000000000000000000.0, 50000000000000000000000.0, 60000000000000000000000.0, 70000000000000000000000.0, 80000000000000000000000.0, 90000000000000000000000.0, 100000000000000000000000.0, 150000000000000000000000.0, 200000000000000000000000.0, 300000000000000000000000.0, 400000000000000000000000.0, 500000000000000000000000.0, 600000000000000000000000.0, 700000000000000000000000.0, 800000000000000000000000.0, 900000000000000000000000.0, 10000000



The undersigned, James M. Smith, of the County of Franklin, State of Missouri, do hereby certify that the within and foregoing is a true and correct copy of the original of the same as the same appears from the records of the County of Franklin, State of Missouri, and that the same is a true and correct copy of the original of the same as the same appears from the records of the County of Franklin, State of Missouri.

In testimony whereof, I have hereunto set my hand and the seal of the County of Franklin, State of Missouri, this 10th day of April, 1907.

James M. Smith, County Clerk

