

RAFT Agents for Controlled Radical Polymerization

RAFT agents (Chain Transfer Agents, CTA) are essential mediators for reversible addition-fragmentation chain transfer (RAFT) polymerization, common type of controlled radical polymerization. The usage of RAFT polymerization have been increasing due to its wide compatibility with a wide range of monomers and solvents including water, and without using heavy metals during polymerization.

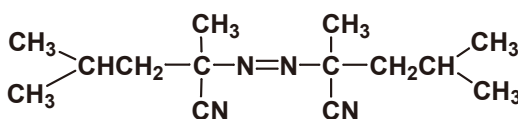
Guidance for monomer compatibility

RAFT Agent Structure	Reference	Monomer Compatibility
	1g / 5g [D5561]	←-----→
	1g [U0126]	←-----→
	1g [M3252]	←-----→
	1g / 5g [C3546]	←-----→
	1g [C3627]	←-----→
	1g / 5g [C3626]	←-----→
	1g [B6067]	←-----→
	1g [C3548]	←-----→
	1g / 5g [C3549]	←-----→
	1g [U0125]	←-----→
	1g / 5g [P2638]	←-----→
	1g / 5g [B6066]	←-----→
	5g / 25g [T2401]	←-----→
	1g / 5g [C3534]	←-----→
	1g / 5g [E1403]	←-----→

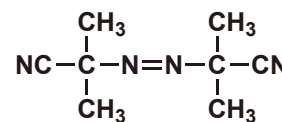
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Related Products

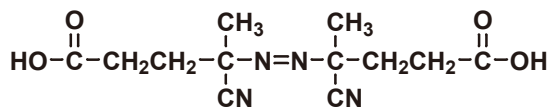
Typical azo polymerization initiators



ADVN
25g / 500g
[A0680]

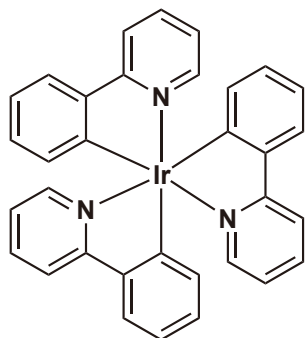


AIBN
25g / 500g
[A0566]

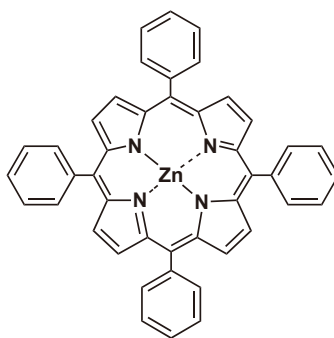


ACVA
25g / 250g
[A1671]

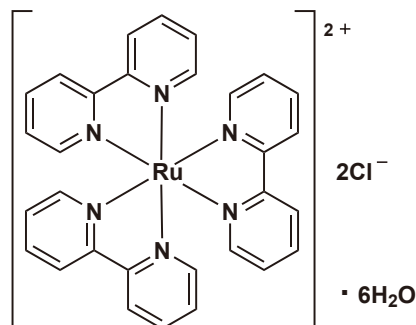
Reagents for photoinduced electron transfer (PET)-RAFT polymerization



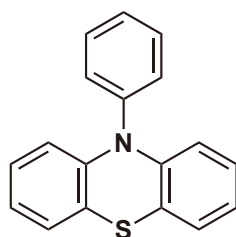
Ir(ppy)₃
200mg / 1g
[T3716]



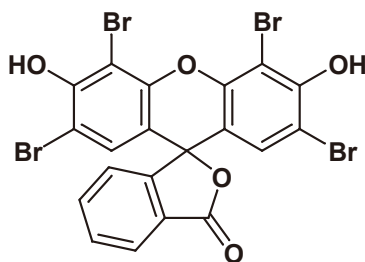
ZnTPP
1g / 5g
[Z0036]



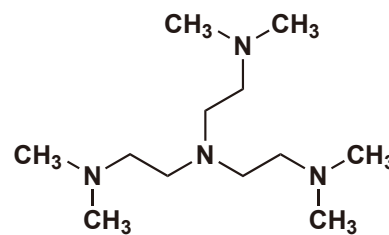
Ru(bpy)₃Cl₂ Hexahydrate
1g / 5g
[T1655]



10-Phenylphenothiazine
1g / 5g
[P2470]



Eosin Y
25g
[T0035]



Me₆TREN
1g / 5g
[T2898]

Reference V. Bellotti, R. Simonutti, *Polymers* **2021**, 13, 1119. DOI: <https://doi.org/10.3390/polym13071119>

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Tel : 800-988-0390 / 021-67121386
Fax : 021-6712-1385
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TOKYO CHEMICAL INDUSTRY CO., LTD.

Tel : +81 (0)3-5640-8878
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