

Supplementary Material

Table 1. Epoxidation of cyclooctene by *n*-Bu₄NIO₄ in the presence of [Mn(TPP)(OAc)] catalysts with or without H₂O.^[a,b]

Mn(TPP)(OAc)				
Nitrogen Donor	Co Catalyst/Catalyst Molar Ratio	Maximum Epoxidation Yields (%)	Co Catalyst/Catalyst Molar Ratio	Maximum Epoxidation Yields (%)
		Without H ₂ O, 5h		With H ₂ O (0.5ml), 3h
ImH	10	73.3	40	98.0
4(5)-MeImH	10	58.0	40	64.8
2-MeImH	10	23.2	40	59.2
2-EtImH	10	19.6	40	51.5
1-MeImH	80	10.1	10	10.1

[a] The molar ratio for [Mn(por)]/Nitrogen donors/cyclooctene/periodate was 1:x:83:167 with a concentration of [Mn(por)] of 0.003 M at 23±2 °C.

[b] The epoxidation yields (%) were measured relative to initial cyclooctene. All reactions were run at least in triplicate, and the data represent an average of these reactions with ± 0.8 % (2s).

Table 2. Epoxidation of cyclooctene by $n\text{-Bu}_4\text{NIO}_4$ in the presence of $[\text{Mn}(\text{TPFPP})(\text{OAc})]$ catalysts with or without H_2O .^[a,b]

Mn(TPFPP)(OAc)				
Nitrogen Donor	Co Catalyst/Catalyst Molar Ratio	Maximum Epoxidation Yields (%)	Co Catalyst/Catalyst Molar Ratio	Maximum Epoxidation Yields (%)
		Without H₂O, 24h		With H₂O (0.5ml), 8h
ImH	5	11.5	10	50.4
4(5)-MeImH	5	13.6	10	67.8
2-MeImH	5	6.5	10	64.5
2-EtImH	5	5.3	10	24.6
1-MeImH	10	5.7	1	2.9

[a] The molar ratio for $[\text{Mn}(\text{por})]$ /Nitrogen donors/cyclooctene/periodate was 1:x:83:167 with a concentration of $[\text{Mn}(\text{por})]$ of 0.003 M at 23 ± 2 °C.

[b] The epoxidation yields (%) were measured relative to initial cyclooctene. All reactions were run at least in triplicate, and the data represent an average of these reactions with ± 0.8 % (2s).