

Table 3.1. Oxidation Catalysts

No.	Reaction	Source of preformed metal		Preparation of agent	Temperature of preparation	Exposing agent	Temperature of exposure	Method of preparing sample
		NaCl ₂ solution	NaCl ₂ solution					
1	C-N ₂ -B	NaCl ₂ solution	NaCl ₂ solution	In situ	high temp.	10% NaOH	80-90°C	1, 2
2	C-N ₂ -B	NaCl ₂ (CO ₂) ₂ solution	NaCl ₂ (CO ₂) ₂ solution	-	-	-	-	-
3	C-N ₂ -C ₂ H ₅	NaCl ₂ solution	NaCl ₂ solution	-	room temp. or water cooling	-	water cooling	-
4	C-N ₂ -B(C ₂ H ₅)	NaCl ₂ -H ₂ O mixture	NaCl ₂ -H ₂ O mixture	-	space-temp. or at temp.	-	80°C	10
5	C-N ₂ -B(C ₂ H ₅)	NaCl ₂ solution	NaCl ₂ solution	-	high temp.	H ₂ SO ₄	80-90°C	11
6	C-N ₂ -B(C ₂ H ₅)	-	-	All gases	space-temp. or at temp. (cooling)	20% NaOH	water cooling (80°C)	11, 16
7	C-N ₂ -B(C ₂ H ₅)	-	-	All products	high temp.	-	water cooling	16
8	C-N ₂ -B	-	-	In situ	-	10% NaOH	room temp. or 40°C	-
9	C-N ₂ -A	NaCl ₂ (CO ₂) ₂ solution	NaCl ₂ (CO ₂) ₂ solution	-	-	-	-	-
10	C-N ₂ -A	NaCl ₂ solution	NaCl ₂ solution	-	-	20% NaOH	80°C	-
11	C-N ₂ -C ₂ H ₅	-	-	-	room temp. or water cooling	propylene and 10% NaOH	water cooling with oven	-
12	C-N ₂ -B(C ₂ H ₅)	NaCl ₂ -H ₂ O mixture	NaCl ₂ -H ₂ O mixture	-	space-temp. or at temp.	10% NaOH	room temp.	11
13	C-N ₂ -A (HCl)	NaCl ₂ solution	NaCl ₂ solution	-	high temp.	H ₂ SO ₄ + HCl	-	13
14	C-N ₂ -B(C ₂ H ₅) (HCl)	NaCl ₂ -H ₂ O mixture	NaCl ₂ -H ₂ O mixture	-	space-temp. or at temp.	-	-	13
15	C-N ₂ -A-A	NaCl ₂ solution	NaCl ₂ solution	All gases	high temp.	NaOH + NaCl	80°C	16
16	C-N ₂ -B	CaCl ₂ solution	CaCl ₂ solution	In situ	-	10% NaOH	80-90°C	16

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