

[illegible]



Heterogeneous Catalyst Applications Table

<div>JM</div> <div>Heterogeneous Catalyst Applications Table</div>		1% Pt/C		1% Pt(Fe)/C	3% Pt/C	5% Pt/C				5% Pt(S)/C	5% Pt/Al ₂ O ₃	5% Pd/C								5% Pd/Al ₂ O ₃	5% Pd(Pb)/CaCO ₃	10% Pd/C						5% Rh/C	5% Rh/Al ₂ O ₃	5% Ru/C	5% Ru/Al ₂ O ₃							
		1SB128M00	1SB163000	3SB113032	5SB103000	5SB103018	5SB103032	5SB117000	5SB128M00	5SB106032	5SB312099	5SA102023	5SA390000	5SA405028	5SA424000	5SA452000	5SA487000	5SA503023	5SA503032	5SA580000	5SA87L000	5SA302099	5SA302011	5SA305050	10SA390000	10SA394000	10SA402028	10SA424000	10SA487000	10SA87L000	5SC20A0000	5SC101023	5SC301099	5SD101002	5SD600000	5SD970000	5SD302011	
Reductive Aminations & Alkylations	Reductive amination from ketone													■			■	■	■		■																	
	Reductive alkylation from ketone						■	■		■			■				■				■																	
	Nitro reduction and reductive alkylation from ketone									■			■								■																	
	Imine to amine						■		■		■	■	■				■	■				■																
Imines & Oximes	Amino imine to hydrazine						■	■	■										■	■	■																	
	Oxime to amine																	■	■	■												■						
	Oxime to hydroxylamine											■							■	■																		
Nitriles	Nitrile to 1°-aliphatic amine RNH ₂				■		■												■	■											■	■						
	Nitrile to 2°-aliphatic amine R ₂ NH																		■	■																		
	Nitrile to 3°-aliphatic amine R ₃ N															■			■													■						
	Nitrile to 1°-aromatic amine RNH ₂						■		■							■		■	■							■												
	Nitrile to 2°-aromatic amine R ₂ NH				■		■									■			■																			
	Nitrile to aldehyde																		■																			
Hydrogenolysis	Aryl and alkyl halide hydrodehalogenation														■		■	■																				
	Vinyl halide to alkane												■	■	■	■		■																				
	Benzyl X cleavage												■		■	■		■								■												
	O-debenzylation												■		■	■									■		■			■								
	N-debenzylation												■		■	■		■							■		■											
	N-decarbobenzyloxylation												■	■	■	■									■	■	■	■										
	O-decarbobenzyloxylation												■	■	■	■								■	■	■	■											
	Epoxide opening												■	■				■																				
Transfer Hydrogenation	Nitro to amine										■					■	■	■																				
	Alkene to alkane										■					■	■	■																				
	O-/N-debenzylation												■	■		■		■							■	■	■		■									
	O-/N-decarbobenzyloxylation												■	■		■		■							■	■	■		■									
Dehydrogenation & Alcohol Oxidation	Cyclohexane to benzene																	■												■								
	Cyclohexene to benzene																	■												■								
	Alkene to alkane																													■								
	Alcohol to acid								■																											■		
	Alcohol to aldehyde								■																									■		■		
	Alcohol to carbonyl								■																				■								■	