

Catalyst Library – Application Table    Precious Metal Powder Catalysts

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	Noblyst® P1064 5% Pd on activated carbon	Noblyst® P1070 10% Pd on activated carbon	Noblyst® P1071 20% Pd on activated carbon	Noblyst® P1087 5% Pd on activated carbon	Noblyst® P1090 5% Pd on activated carbon	Noblyst® P1092 5% Pd on activated carbon	Noblyst® P1093 5% Pd on activated carbon	Noblyst® P1095 5% Pd on activated carbon	Noblyst® P1109 5% Pd on activated carbon	Noblyst® P1126 5% Pd on activated carbon	Noblyst® P1141 10% Pd on activated carbon	Noblyst® P1145 5% Pd on activated carbon	Noblyst® P1148 5% Pd on alumina	Noblyst® P1152 5% Pd on calcium carbonate	Noblyst® P2057 3% Pt on activated carbon	Noblyst® P2058 5% Pt on activated carbon	Noblyst® P2060 5% Pt on activated carbon	Noblyst® P2061 5% Pt on activated carbon	Noblyst® P2067 3% Pt on activated carbon	Noblyst® P2086 10% Pt on activated carbon	Noblyst® P3053 5% Rh on activated carbon	Noblyst® P3059 5% Ru on activated carbon	Noblyst® P3060 5% Ru on activated carbon	Noblyst® P3061 5% Ru on alumina	Noblyst® P8059 5% Pd on calcium carbonate	Noblyst® P8071 2% Pt on activated carbon	Noblyst® P8074 5% Pt on activated carbon	Noblyst® P8075 1% Pt on activated carbon	Noblyst® P8078 1% Pt on activated carbon	Noblyst® P8082 4% Pd + 1% Pt on activated carbon		
Hydrogenation of CC Bonds																																
Hydrogenation of CC Double Bonds				●		●	●	●	○	○	○	○						●														
Hydrogenation of CC Triple Bonds to Aliphatics				●		●	●	●	○	○	○	○						●														
Hydrogenation of CC Triple Bonds to CC Double Bonds														●												●						
Fatty Acid and Fat Hardening				○		○			○	●	○																					
Hydrogenation of CN Bonds																																
Hydrogenation of CN Triple Bonds to Primary Amines				●		●	●		○	○	○											○										
CN Triple Bonds to Secondary and Tertiary Amines															○	●	○	●														
Hydrogenation of CN Triple Bonds to Aldehydes				●		●	●		○	○	○																					
Hydrogenation of CN Double Bonds (Imines)															○	○	●	●														
Hydrogenation of Hydrazones to Hydrazines															○	●	○	●														
Hydrogenation of C=O Bonds																																
Hydrogenation of Aliphatic Aldehydes and Ketones																	○	●														
Hydrogenation of Sugars to sugar alcohols																																
Hydrogenation of Aromatic Carbonyls to Alcohols	●			○		○											○	●														
Hydrogenation of Aromatic Carbonyls to Alkyls		●	○	●	●	●				○	○																					
Hydrogenation of Carboxylic Acids, Esters, and Anhydrides																																
Hydrogenation of Nitro Groups																																
Aromatic Nitro Groups to Aromatic Amines							●			●						●	●	○	○	○								○	●		○	
Aromatic Nitro Groups in Halonitroaromatics																○	○	○	○	○								○	●		○	
Aromatic Nitro Groups with Other Functional Groups																												●	●		●	
Aromatic Nitro Groups to Hydroxylamines													●	●					●													
Aromatic Nitro Groups to para-Aminophenols																○	●		●													
Hydrogenation of Aliphatic Nitro Groups	○						●	○				●					○	●	○													
Hydrogenolysis Reactions																																
O-Debenzylation (Cleavage of the Carbon-Oxygen Bond)		●	●	○	●	○	○			○	○																				○	
N-Debenzylation (Cleavage of the Carbon-Nitrogen Bond)		●	●	○	●	○	○			○	○																				○	
Removal of the Cbz (Z) Protection Group	●	●	○					●			○	●																			○	
Rosenmund Reduction								●				●																				
Hydrodehalogenation of Aliphatics	●						○	●				●																				
Hydrodehalogenation of Aromatics	●			○		○	○	●			○	●																				
Reductive Alkylation and Amination																																
Aldehydes and Ketones to Primary Amines	○			●		●			○	○		●																				
Aldehydes and Ketones to Secondary Amines	○			●		●			○	○		●				○	○			●												
Hydrogenation of Aromatics																																
Hydrogenation of Heteroaromatics	●			●		●				○	○	○										●	○	○	○							
Hydrogenation of Aromatics (partial)																							●	●	●							
Hydrogenation of Aromatics (total)																						●	○	○	○							
Dehydrogenations and Oxidations																																
Dehydrogenation of Carbocyclic Rings to Aromatics	●						○	●				●																				
Oxidation of Alcohols and Sugars											○				○	○	○	○		○												
CC Coupling Reactions																																
Heck Reaction	●	○		●		●	●	●																				○				
Suzuki-Coupling	●	○		●		●	●	●																								

● preferred (first choice)    ○ recommended

This sample kit is designed as an entry point to find a suitable catalyst. Please contact one of our technical specialists for further recommendations. Most often the catalyst performance can be improved significantly by tailoring the catalyst to your requirements. The recommendations given above are believed to be accurate at the time of publication, but EVONIK makes no warranty with respect thereto, including but not limited to any results to be obtained or the infringement of any proprietary right.