Sigma-Aldrich®
Lab & Production Materials

● **Preferred (first choice)**
O **Recommended**

	5% Pd on activated carbon 907138	10% Pd on activated carbon 330108	20% Pd on activated carbon 330094	5% Pd on activated carbon 907839	5% Pd on activated carbon 907944	5% Pd on activated carbon 908061	5% Pd on activated carbon 907987	5% Pd on activated carbon 907995	5% Pd on activated carbon 908096	10% Pd on activated carbon 908029	5% Pd on activated carbon 908118	5% Pd on calcium carbonate 908002	5% Pd on alumina 908126	3% Pt on activated carbon 908169	5% Pt on activated carbon 908053	5% Pt on activated carbon 908150	5% Pt on activated carbon 908037	3% Pt on activated carbon 908088	10% Pt on activated carbon 907812	5% Rh on activated carbon 680710	5% Ru on activated carbon 908045	5% Ru on activated carbon 907871	5% Ru on alumina 908142	5% Pd on calcium carbonate 908134	2% Pt on activated carbon 907952	1% Pt on activated carbon 907820	5% Pt on activated carbon 908010	1% Pt on activated carbon 907898	4% Pd + 1% Pt on activated carbon 907936
Hydrogenation of CC Bonds																													
Hydrogenation of CC Double Bonds					●	●	●	O	O	O	O						●												
Hydrogenation of CC Triple Bonds to Aliphatics					●	●	●	O	O	O	O						●												
Hydrogenation of CC Triple Bonds to CC Double Bonds												●												●					
Fatty Acid and Fat Hardening					O			O	●	O																			
Hydrogenation of CN Bonds																													
Hydrogenation of CN Triple Bonds to Primary Amines					●	●		O	O	O										O									
CN Triple Bonds to Secondary and Tertiary Amines														O	●	O	●												
Hydrogenation of CN Triple Bonds to Aldehydes					●	●		O	O	O																			
Hydrogenation of CN Double Bonds (Imines)														O	O	●	●												
Hydrogenation of Hydrazones to Hydrazines														O	●	O	●												
Hydrogenation of C=O Bonds																													
Hydrogenation of Aliphatic Aldehydes and Ketones																O	●		O		●	●	O						
Hydrogenation of Sugars to Sugar Alcohols																					●	●	O						
Hydrogenation of Aromatic Carbonyls to Alcohols	●				O	O	●								●	O	●		O										
Hydrogenation of Aromatic Carbonyls to Alkyls		●	O	●	●				O	O											●	O	●						
Hydrogenation of Carboxylic Acids, Esters, and Anhydrides																													

The life science business of Merck operates as MilliporeSigma in the U.S. and Canada.

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Hydrogenation of Nitro Groups																													
Aromatic Nitro Groups to Aromatic Amines						●			●					●	●	o		o							o			o	o
Aromatic Nitro Groups in Halonitroaromatics														o	o	o	o	o	o						●	●		●	
Aromatic Nitro Groups with Other Functional Groups																									●			●	
Aromatic Nitro Groups to Hydroxylamines												●	●					●											
Aromatic Nitro Groups to *para*-Aminophenols														o	●		●												
Hydrogenation of Aliphatic Nitro Groups	o					●	o				●				o	●	o												
Hydrogenolysis Reactions																													
O-Debenzylation (Cleavage of the C-O Bond)		●	●	●	o	o			o	o																			o
N-Debenzylation (Cleavage of the C-N Bond)		●	●	●	o	o			o	o																			o
Removal of the Cbz (*Z*) Protection Group	●	●	o				●			o	●																		o
Rosenmund Reduction							●				●																		
Hydrodehalogenation of Aliphatics	●					o	●				●																		
Hydrodehalogenation of Aromatics	●				o	o	●			o	●																		
Reductive Alkylation and Amination																													
Aldehydes and Ketones to Primary Amines	o				●			o	o		●																		
Aldehydes and Ketones to Secondary Amines	o				●			o	o		●			o	o			●											
Hydrogenation of Aromatics																													
Hydrogenation of Heteroaromatics	●				●				o	o	o									●	o	o	o						
Hydrogenation of Aromatics (partial)																					●	●	●						
Hydrogenation of Aromatics (total)																				●	o	o	o						

Dehydrogenations and Oxidations																												
Dehydrogenation of Carbocyclic Rings to Aromatics	●					o	●				●																	
Oxidations of Alcohols and Sugars										o				o	o	o	o		o								●		
CC Coupling Reactions																												
Heck Reaction	●	o			●	●	●																					
Suzuki-Coupling	●	o			●	●	●																					

To Place an Order or Receive Technical Assistance

In the U.S. and Canada, call toll-free
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