

## Palladium-Catalysts on Carbon (wet approx. 50 % water)

Art.-No.	Degussa-Type	Catalyst Composition	Preferred Applications	Unit	€
<b>019716</b>	E 105 YA/W 5% Pd	Palladium on Activated carbon	Dehalogenation	10 g	81,00
				50 g	295,00
<b>019717</b>	E 106 B/W 5% Pd	Palladium on Activated carbon	Hydrogenation of aromatic ketones	10 g	81,00
				50 g	295,00
<b>019727</b>	E 196 NN/W 5% Pd	Palladium on Activated carbon	Reductive alkylation/amination Debenzylation	10 g	81,00
				50 g	295,00
<b>019719</b>	E 106 NN/W 5% Pd	Palladium on Activated carbon	Cleavage of C-O bonds in benzyl alcohols Dehalogenation Debenzylation Hydrogenation of aromatic aldehydes and ketones	10 g	81,00
				50 g	295,00
<b>019720</b>	E 106 O/W 5% Pd	Palladium on Activated carbon	Hydrogenation of nitriles	10 g	81,00
				50 g	295,00
<b>019721</b>	E 106 R/W 5% Pd	Palladium on Activated carbon	Reductive alkylation/amination	10 g	81,00
				50 g	295,00
<b>019722</b>	E 107 M/W 5%	Palladium on Activated carbon	Debenzylation	10 g	81,00
				50 g	295,00
<b>019723</b>	E 107 MA/W 5%	Palladium on Activated carbon	Debenzylation	10 g	81,00
				50 g	295,00
<b>019729</b>	E 196 R/W 5% Pd	Palladium on Activated carbon	Hydrogenation of aromatic and aliphatic nitro groups Hydrogenation of alkynes and alkenes Hydrogenation of nitriles	10 g	81,00
				50 g	295,00
<b>019711</b>	E 101 R/W 9% Pd	Palladium on Activated carbon	Hydrogenation of nitrate to hydroxylamine	10 g	175,00
				50 g	546,00
<b>019718</b>	E 106 NN/W 10% Pd	Palladium on Activated carbon	Cleavage of C-O bonds in benzyl alcohols Dehalogenation Debenzylation	10 g	175,00
				50 g	546,00
<b>019726</b>	E 196 NN/W 10% Pd	Palladium on Activated carbon	Reductive alkylation/amination Debenzylation	10 g	175,00
				50 g	546,00
<b>019713</b>	E 105 R/W 10% Pd	Palladium on Activated carbon	Cleavage of C-OH bonds in benzyl alcohols Dehalogenation	10 g	175,00
				50 g	546,00
<b>019710</b>	E 101 O/W 10% Pd	Palladium on Activated carbon	Hydrogenation of aromatic nitro groups Hydrogenation of nitroso compounds Hydrogenation of alkynes and alkenes Hydrogenation of nitriles	10 g	175,00
				50 g	546,00
<b>019705</b>	E 101 N/W 10% Pd	Palladium on Activated carbon	Hydrogenation of aromatic nitro groups Hydrogenation of nitroso compounds	10 g	175,00
				50 g	546,00
<b>019730</b>	E 196 RB/W 10% Pd	Palladium on Activated carbon	Selective hydrogenation at basic conditions Hydrogenation of alkenes	10 g	175,00
				50 g	546,00

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<b>019716</b>	E 105 YA/W 5% Pd	Palladium on Activated carbon	Dehalogenation	10 g	81,00
				50 g	295,00
<b>019717</b>	E 106 B/W 5% Pd	Palladium on Activated carbon	Hydrogenation of aromatic ketones	10 g	81,00
				50 g	295,00
<b>019727</b>	E 196 NN/W 5% Pd	Palladium on Activated carbon	Reductive alkylation/amination Debenzylation	10 g	81,00
				50 g	295,00
<b>019719</b>	E 106 NN/W 5% Pd	Palladium on Activated carbon	Cleavage of C-O bonds in benzyl alcohols Dehalogenation Debenzylation Hydrogenation of aromatic aldehydes and ketones	10 g	81,00
				50 g	295,00
<b>019720</b>	E 106 O/W 5% Pd	Palladium on Activated carbon	Hydrogenation of nitriles	10 g	81,00
				50 g	295,00
<b>019721</b>	E 106 R/W 5% Pd	Palladium on Activated carbon	Reductive alkylation/amination	10 g	81,00
				50 g	295,00
<b>019722</b>	E 107 M/W 5%	Palladium on Activated carbon	Debenzylation	10 g	81,00
				50 g	295,00
<b>019723</b>	E 107 MA/W 5%	Palladium on Activated carbon	Debenzylation	10 g	81,00
				50 g	295,00
<b>019729</b>	E 196 R/W 5% Pd	Palladium on Activated carbon	Hydrogenation of aromatic and aliphatic nitro groups Hydrogenation of alkynes and alkenes Hydrogenation of nitriles	10 g	81,00
				50 g	295,00
<b>019711</b>	E 101 R/W 9% Pd	Palladium on Activated carbon	Hydrogenation of nitrate to hydroxylamine	10 g	175,00
				50 g	546,00
<b>019718</b>	E 106 NN/W 10% Pd	Palladium on Activated carbon	Cleavage of C-O bonds in benzyl alcohols Dehalogenation Debenzylation	10 g	175,00
				50 g	546,00
<b>019726</b>	E 196 NN/W 10% Pd	Palladium on Activated carbon	Reductive alkylation/amination Debenzylation	10 g	175,00
				50 g	546,00
<b>019713</b>	E 105 R/W 10% Pd	Palladium on Activated carbon	Cleavage of C-OH bonds in benzyl alcohols Dehalogenation	10 g	175,00
				50 g	546,00
<b>019710</b>	E 101 O/W 10% Pd	Palladium on Activated carbon	Hydrogenation of aromatic nitro groups Hydrogenation of nitroso compounds Hydrogenation of alkynes and alkenes Hydrogenation of nitriles	10 g	175,00
				50 g	546,00
<b>019705</b>	E 101 N/W 10% Pd	Palladium on Activated carbon	Hydrogenation of aromatic nitro groups Hydrogenation of nitroso compounds	10 g	175,00
				50 g	546,00
<b>019730</b>	E 196 RB/W 10% Pd	Palladium on Activated carbon	Selective hydrogenation at basic conditions Hydrogenation of alkenes Dehalogenation	10 g	175,00
				50 g	546,00

## Palladium-Catalysts on Alumina (dry)

Art.-No.	Degussa-Type	Catalyst Composition	Preferred Applications	Unit	€
019733	E 213 R/D 5%	Palladium on Alumina	Selective hydrogenation	10 g	65,00
				50 g	220,00
019734	E 214 R/D 5%	Palladium on Alumina	Selective hydrogenation	10 g	65,00
				50 g	220,00

## Special Palladium-Catalysts Price on request

Degussa-Type	Catalyst Composition	Preferred Applications
CE 105 R/W 5% Pd + 0,5% Fe	Palladium and Iron on Activated carbon	Hydrogenation of aromatic and aliphatic nitro groups
CE 105 RV/W 5% Pd + 0,5% V	Palladium and Vanadium on Activated carbon	Hydrogenation of nitro groups in halo nitro aromatics
CE 1097 RC/W 5% Pd + 1% Fe	Palladium and Iron on Activated carbon	Hydrogenation of aromatic nitro groups Hydrogenation of nitroso compounds Hydrogenation of DNT to TDA
CE 1097 RV/W 5% Pd + 1% V	Palladium and Vanadium on Activated carbon	Hydrogenation of nitro groups in halo nitro aromatics Hydrogenation of nitroso compounds
CE 196 RA/W 5% Pd + 5% Bi	Palladium and Bismuth on Activated carbon	Oxidation of alcohols and sugars
CE 407 R/D 5% Pd + 3,5% Pb	Palladium and Lead on Calcium carbonate	Selective hydrogenation of alkynes to alkenes
CE 910 NN/W 1,75% Pd + 4,2% Fe	Palladium and Iron on carbon black	Hydrogenation of aromatic nitro groups Hydrogenation of DNT to TDA
E 1002 NN/W 10% Pd	Palladium on Activated carbon	Debenzylation
EF 101 R/W 4% Pd + 1% Pt	Palladium and Platinum on Activated carbon	Hydrogenation of aromatic nitro groups
ER 105 U/W 5% Pd + 5% Re	Palladium and Rhenium on Activated carbon	Hydrogenation of carboxylic acids, esters and anhydrides
E 101 NE/W 20% Pd	Palladium on Activated carbon	Debenzylation Removal of Z and Cbz protection groups
E 1525 M/W 5%	Palladium on Activated carbon	Debenzylation
E 1525 MA/W 5%	Palladium on Activated carbon	Debenzylation

**Special Platinum-Catalysts**  
**(wet approx. 50 % water)**  
**Price on request**

Degussa-Type	Catalyst Composition	Preferred Applications
CF 105 R/W 5% Pt + 0,5% Fe	Platinum and Iron on Activated carbon	Hydrogenation of nitro groups in halo nitro aromatics Hydrogenation of aliphatic nitro groups
CF 105 RA/W 3% Pt + 0,3% Cu	Platinum and Copper on Activated carbon	Hydrogenation of nitro groups in halo nitro aromatics
CF 105 RAW 5% Pt + 5% Bi	Platinum and Bismuth on Activated carbon	Oxidation of alcohols and sugars
CF 105 RV/W 5% Pt + 0,5% V	Platinum and Vanadium on Activated carbon	Hydrogenation of nitro groups in halo nitro aromatics Hydrogenatio of aliphatic nitro groups Hydrogenation of nitroso compounds
CF 1082 BV/W 1% Pt + 2% V	Platinum and Vanadium on Activated carbon	Hydrogenation of nitro groups in halo nitro aromatics Hydrogenatio of aliphatic nitro groups Hydrogenation of nitroso compounds
CF 1082 BV/W 3% Pt + 0,6% V	Platinum and Vanadium on Activated carbon	Hydrogenation of nitro groups in halo nitro aromatics Hydrogenatio of aliphatic nitro groups Hydrogenation of nitroso compounds
CF 196 RAW 5% Pt + 5% Bi	Platinum and Bismuth on Activated carbon	Oxidation of alcohols and sugars

**Ruthenium Catalysts on Carbon**  
**(wet approx. 50 % water)**

Art.-No.	Degussa-Type	Catalyst Composition	Preferred Applications	Unit	€
<b>019780</b>	H 105 BA/W 5% Ru	Ruthenium on Activated carbon	Hydrogenation of aliphatic ketones	10 g	51,00
				50 g	181,00
<b>019781</b>	H 105 P/W 5% Ru	Ruthenium on Activated carbon	Hydrogenation of aliphatic ketones	10 g	51,00
				50 g	181,00
<b>019782</b>	H 105 RA/W 5% Ru	Ruthenium on Activated carbon	Hydrogenation of aliphatic alcohols and sugars Hydrogenation of aromatic rings	10 g	51,00
				50 g	181,00
<b>019783</b>	H 105 U/W 5% Ru	Ruthenium on Activated carbon	Hydrogenation of aliphatic alcohols and sugars Hydrogenation of aromatic rings	10 g	51,00
				50 g	181,00
<b>019784</b>	H 106 N/W 5% Ru	Ruthenium on Activated carbon	Hydrogenation of heteroaromatics	10 g	51,00
				50 g	181,00
<b>019701</b>	H 105 XBAW 5% Ru	Ruthenium on Activated carbon	Hydrogenation of aliphatic ketones and aldehydes Hydrogenation of aliphatic alcohols and sugars Hydrogenation of aromatic rings	10 g	51,00
				50 g	181,00

**Special Platinum-Catalysts  
(wet approx. 50 % water)  
Price on request**

Degussa-Type	Catalyst Composition	Preferred Applications
CF 105 R/W 5% Pt + 0,5% Fe	Platinum and Iron on Activated carbon	Hydrogenation of nitro groups in halo nitro aromatics Hydrogenation of aliphatic nitro groups
CF 105 RA/W 3% Pt + 0,3% Cu	Platinum and Copper on Activated carbon	Hydrogenation of nitro groups in halo nitro aromatics
CF 105 RA/W 5% Pt + 5% Bi	Platinum and Bismuth on Activated carbon	Oxidation of alcohols and sugars
CF 105 RV/W 5% Pt + 0,5% V	Platinum and Vanadium on Activated carbon	Hydrogenation of nitro groups in halo nitro aromatics Hydrogenation of aliphatic nitro groups Hydrogenation of nitroso compounds
CF 1082 BV/W 1% Pt + 2% V	Platinum and Vanadium on Activated carbon	Hydrogenation of nitro groups in halo nitro aromatics Hydrogenation of aliphatic nitro groups Hydrogenation of nitroso compounds
CF 1082 BV/W 3% Pt + 0,6% V	Platinum and Vanadium on Activated carbon	Hydrogenation of nitro groups in halo nitro aromatics Hydrogenation of aliphatic nitro groups Hydrogenation of nitroso compounds
CF 196 RA/W 5% Pt + 5% Bi	Platinum and Bismuth on Activated carbon	Oxidation of alcohols and sugars

**Ruthenium Catalysts on Carbon  
(wet approx. 50 % water)**

Art.-No.	Degussa-Type	Catalyst Composition	Preferred Applications	Unit	€
<b>019780</b>	H 105 BA/W 5% Ru	Ruthenium on Activated carbon	Hydrogenation of aliphatic ketones	10 g	51,00
				50 g	181,00
<b>019781</b>	H 105 P/W 5% Ru	Ruthenium on Activated carbon	Hydrogenation of aliphatic ketones	10 g	51,00
				50 g	181,00
<b>019782</b>	H 105 RA/W 5% Ru	Ruthenium on Activated carbon	Hydrogenation of aliphatic alcohols and sugars Hydrogenation of aromatic rings	10 g	51,00
				50 g	181,00
<b>019783</b>	H 105 U/W 5% Ru	Ruthenium on Activated carbon	Hydrogenation of aliphatic alcohols and sugars Hydrogenation of aromatic rings	10 g	51,00
				50 g	181,00
<b>019784</b>	H 106 N/W 5% Ru	Ruthenium on Activated carbon	Hydrogenation of heteroaromatics	10 g	51,00
				50 g	181,00
<b>019701</b>	H 105 XBA/W 5% Ru	Ruthenium on Activated carbon	Hydrogenation of aliphatic ketones and aldehydes Hydrogenation of aliphatic alcohols and sugars Hydrogenation of aromatic rings	10 g	51,00
				50 g	181,00

## Ruthenium Catalysts on Alumina (dry)

Art.-No.	Degussa-Type	Catalyst Composition	Preferred Applications	Unit	€
019785	H 213 B/D 5% Ru	Ruthenium on Alumina	Hydrogenation of aliphatic ketones	10 g	85,00
				50 g	290,00

## Rhodium Catalysts on Carbon (wet approx. 50 % water)

Art.-No.	Degussa-Type	Catalyst Composition	Preferred Applications	Unit	€
019790	G 101 B/W 5% Rh	Rhodium on Activated carbon	Hydrogenation of oximes	10 g	POR
				50 g	POR
019791	G 101 KB/W 5% Rh	Rhodium on Activated carbon	Hydrogenation of carboxylic acids, esters and anhydrides	10 g	POR
				50 g	POR
019792	G 106 B/W 5% Rh	Rhodium on Activated carbon	Hydrogenation of carboxylic acids, esters and anhydrides	10 g	POR
				50 g	POR
019793	G 106 N/W 5% Rh	Rhodium on Activated carbon	Hydrogenation of aliphatic alcohols and sugars Hydrogenation of aromatic rings	10 g	POR
				50 g	POR

## Rhodium Catalysts on Alumina (dry)

Art.-No.	Degussa-Type	Catalyst Composition	Preferred Applications	Unit	€
019794	G 213 KRA/D 5%	Rhodium on Alumina	Hydrogenation of aromatics Hydrogenation of alkenes	10 g	POR
				50 g	POR
019795	G 213 RA/D 5%	Rhodium on Alumina	Hydrogenation of aromatics Hydrogenation of alkenes	10 g	POR
				50 g	POR
019796	G 214 KRA/D 5%	Rhodium on Alumina	Hydrogenation of aromatics Hydrogenation of alkenes	10 g	POR
				50 g	POR
019797	G 214 RA/D 5%	Rhodium on Alumina	Hydrogenation of aromatics Hydrogenation of alkenes	10 g	POR
				50 g	POR

## Palladium-Gaspurification Catalysts

Art.-No.	Type	Shape	Unit	€
<b>009743</b>	0,5% Pd/Al <sub>2</sub> O <sub>3</sub>	Pellets 3 x 3	50g	<b>109,00</b>
			100g	<b>153,00</b>
<b>009744</b>	0,1% Pd/Al <sub>2</sub> O <sub>3</sub>	Pellets 3 x 3	50g	<b>107,00</b>
			100g	<b>152,00</b>
<b>009745</b>	0,5% Pd/Al <sub>2</sub> O <sub>3</sub>	Pearls 4 - 6	50g	<b>109,00</b>
			100g	<b>153,00</b>
<b>009746</b>	0,1% Pd/Al <sub>2</sub> O <sub>3</sub>	Pearls 4 - 6	50g	<b>107,00</b>
			100g	<b>153,00</b>

## Platinum-Gaspurification Catalysts

Art.-No.	Type	Shape	Unit	€
<b>009747</b>	0,5% Pt/Al <sub>2</sub> O <sub>3</sub>	Pellets 3 x 3	50g	<b>111,50</b>
			100g	<b>165,00</b>
<b>009748</b>	0,1% Pt/Al <sub>2</sub> O <sub>3</sub>	Pearls 4 - 6	50g	<b>116,00</b>
			100g	<b>171,00</b>
<b>009749</b>	0,1% Pt/Al <sub>2</sub> O <sub>3</sub>	Pellets 3 x 3	50g	<b>111,50</b>
			100g	<b>165,00</b>