

Less is more Extra small pack sizes for organic synthesis

Organics XXS bundle –
All that is needed for
the organic chemist



Introduction

Merck Millipore offers the highest quality tools for enabling the research and discovery of new biologically active molecules. Whether it is the discovery of a new drug candidate or the development of new chemical reactions, you can count on Merck Millipore to support your research reagent needs. Our new Organics XXS line offers you the convenience of new smaller pack sizes for your experiments and their use helps minimize waste and waste disposal. The Organics XXS products will need to be dissolved in SeccoSolv® anhydrous solvents. SeccoSolv® solvents packaged with our innovative SeccoSept® self-sealing cap will stay dry for longer periods of time and provide more solvent transfers than our competition, allowing you to be confident in your moisture-sensitive experimental results.

Furthermore, our highly uniform TLC plates provide reproducible results in the analysis of the progress of your chemical experiments. You can be confident that each Merck Millipore TLC plate has been inspected by hand by our QC team to ensure the highest quality and reproducibility. Our Novabiochem® coupling reagents offer a variety of options for amide bond formation. In addition, our LiChrolut® sample prep columns simplify your reaction purification tasks. Merck Millipore products enable the discoveries of the organic chemist, in an increasingly safe and sustainable way.

Organics XXS

The new XXS product line is based on the philosophy that less is more. Ordering the small quantities means more savings for your business, more safety for users, and more sustainable practices. With XXS everyone benefits.

Features & Benefits

- Less waste due to smaller packaging sizes
- Avoidance of excess chemicals
- Reduced release of harmful emissions into the environment
- Efficient use of resources by paying only for required quantities
- Lower cost for disposal, storage and shipment of excess chemicals
- Limits contact with toxic chemicals
- Decreases risk of explosions, fires and other accidents
- Protects lab environment from hazardous emissions

Organics XXS: Palladium and Platinum Reagents

Order Number	Description	Pack Size
8.07110.8500	Palladium(II) Chloride (59% Pd) Anhydrous, for Synthesis	500 mg
8.07340.8500	Hexachloroplatinic(IV) Acid Hexahydrate (ca. 40% Pt) for Synthesis	500 mg
8.07104.0005	Palladium/Charcoal Activated (10% Pd) Hydrogenation Catalyst	5 g
8.07346.8500	Platinum(IV) Oxide Hydrate (80% Pt) Hydrogenation Catalyst for Synthesis	500 mg
8.14761.8500	Tetrakis(Triphenylphosphine)-Palladium(0) for Synthesis	500 mg
8.18056.8500	Palladium(II) Acetate (47% Pd) for Synthesis	500 mg
8.14573.8500	Palladium(II) Nitrate Dihydrate (40% Pd) for Synthesis	500 mg
8.07107.8500	Palladium(II) Oxide (85% Pd) Hydrogenation Catalyst for Synthesis	500 mg
8.07347.8100	Platinum(IV) Chloride (57.5% Pt) Anhydrous for Synthesis	100 mg
8.04174.8500	Bis(Triphenylphosphine) Palladium(II) Chloride (15.2% Pd) for Synthesis	500 mg

Organics XXS: Crown Ethers

Order Number	Description	Pack Size
8.10647.8250	Kryptofix® 222 for Synthesis	250 mg
8.10646.8250	Kryptofix® 221 for Synthesis	250 mg
8.11684.0002	Crown Ether/18-Crown-6 for Synthesis	2 g



The breadth of the XXS range is illustrated below with a small selection of the products available.

	Product	CAS	Pack size	Ord. No.
A	Acetaldehyde diethyl acetal for synthesis	105-57-7	2 ml	8.01366.0002
	Adipic dihydrazide for synthesis	1071-93-8	10 g	8.41689.0010
B	Boron powder	7440-42-8	10 g	1.12070.0010
C	4-Carboxybutyltriphenylphosphonium bromide for pharma synthesis, non-GMP	17814-85-6	25 g	8.45134.0025
	Chloropropane for synthesis	540-54-5	50 ml	8.18841.0050
	(S)-(-)- β -Citronellol for synthesis	7540-51-4	10 ml	8.18378.0010
	Cobalt(II) chloride anhydrous for synthesis	7646-79-9	10 g	8.02540.0010
D	cis-Decahydronaphthalene for synthesis	493-01-6	5 ml	8.20382.0005
	Decane-1-sulfonic acid sodium salt for synthesis	13419-61-9	2 g	8.41036.0002
	Dihexylamine for synthesis	143-16-8	50 ml	8.20465.0050
	N-(3-Dimethylaminopropyl)-N'-ethylcarbodiimide hydrochloride for synthesis	25952-53-8	500 mg	8.00907.8500
	4-(Dimethylamino)pyridine for synthesis	1122-58-3	5 g	8.20499.0005
	N,N-Dimethylformamide dimethyl acetal for synthesis	4637-24-5	1 ml	8.03068.0001
	2,5-Dimethoxytetrahydrofuran (mixture of cis- and trans isomers) for synthesis	696-59-3	25 ml	8.02961.0025
	n-Dodecyltrimethylammonium bromide for synthesis	1119-94-4	10 g	8.41022.0010
E	N-Ethyl-diisopropylamine for pharma synthesis, non-GMP	7087-68-5	50 ml	8.45017.0050
F	3-Fluoro-4-methoxyphenylacetic acid for synthesis	452-14-2	5 g	8.43872.0005
H	Heptafluorobutyric acid for synthesis	375-22-4	5 ml	8.43443.0005
	Hexachloroplatinic(IV) acid hexahydrate (~40% Pt) for synthesis	18497-13-7	500 mg	8.07340.8500
I	Indium(III) oxide 99.5+	1312-43-2	5 g	1.12201.0005
L	Linoleic acid for synthesis	60-33-3	100 μ l	8.43483.8100
M	2-Methoxyethylamine for synthesis	109-85-3	25 ml	8.18872.0025
	N-Methyl-N-trimethylsilyl-trifluoroacetamide for synthesis	24589-78-4	2 ml	8.41102.0002
P	Phthaldialdehyde for synthesis	643-79-8	500 mg	8.21027.8500
	Pyrrole for synthesis	109-97-7	10 ml	8.07492.0010
S	Selenium dioxide (sublimed) for synthesis	7446-08-4	5 g	8.00653.0005
	Sodium borohydride fine granular for synthesis	16940-66-2	10 g	8.06373.0010
	Sodium cyanoborohydride for synthesis	25895-60-7	5 g	8.18053.0005
T	Tellurium dioxide 99.5+	7446-07-3	10 g	1.12356.0010
	Tributyltin hydride for synthesis	688-73-3	5 ml	8.14109.0005
V	Vinyl acetate (stabilized) for synthesis	108-05-4	10 ml	8.03184.0010

We are committed to expanding our portfolio in line with your needs. If you would like us to add a specific product, please contact us at schuchardt-vertrieb@merck.de

Dried Solvents SeccoSolv® & SeccoSept®

Features & Benefits

- Protection from atmospheric contamination
- Reliability: maintenance of quality throughout long term storage & use
- Repetitive withdrawal of dry solvents with minimized loss of quality
- Better stability of solvent within the cycle of sample withdrawal
- Better reproducibility within the cycle of sample withdrawal
- Economical

SeccoSept®: Septum Seal Cap – Reliability in every application

Convenience

- Rotatable septum screw cap
- Useable with one hand

Flexibility

- Useable with & without septum – in different packaging sizes
- Big septum surface – five extra large septum surfaces

Safety

- Double originality closure
- Special PTFE-coated silicon septum with outstanding self-sealing properties
- Yellow protection cap

SeccoSept® Anhydrous Solvents available from Merck Millipore

Ord. No.	Product	Purity (GC) min % Max. [mg/l]	Evap. Residue	Water max. [%]	Content
1.00299.0161	Acetone	99.9	10	0.0075	150 ml
1.00299.1001	Acetone	99.9	10	0.0075	1 l
1.00004.0161	Acetonitrile	99.9	10	0.005	150 ml
1.00004.1001	Acetonitrile	99.9	10	0.005	1 l
1.02395.1001	Chloroform	99.9	10	0.003	1 l
1.06051.0161	Dichloromethane	99.9	10	0.004	150 ml
1.06051.1001	Dichloromethane	99.9	10	0.004	1 l
1.00929.0161	Diethyl ether	99.9	10	0.005	150 ml
1.00929.1001	Diethyl ether	99.9	10	0.005	1 l
1.02375.0161	Dimethyl formamide	99.9	10	0.003	150 ml
1.02375.1001	Dimethyl formamide	99.9	10	0.003	1 l
1.02931.0161	Dimethyl sulfoxide	99.9	10	0.025	150 ml
1.02931.1001	Dimethyl sulfoxide	99.9	10	0.025	1 l
1.03110.0161	1,4-Dioxane	99.9	10	0.005	150 ml
1.03110.1001	1,4-Dioxane	99.9	10	0.005	1 l
1.00990.0161	Ethanol	99.9	10	0.01	150 ml
1.00990.1001	Ethanol	99.9	10	0.01	1 l
1.02396.1001	Ethyl acetate	99.9	10	0.003	1 l
1.06102.0161	Methanol	99.9	10	0.003	150 ml
1.06102.1001	Methanol	99.9	10	0.003	1 l
1.00994.0161	2-Propanol	99.9	10	0.005	150 ml
1.00994.1001	2-Propanol	99.9	10	0.005	1 l
1.07463.0161	Pyridine	99.9	10	0.0075	150 ml
1.07463.1001	Pyridine	99.9	10	0.0075	1 l
1.08107.0161	Tetrahydrofuran	99.9	10	0.005	150 ml
1.08107.1001	Tetrahydrofuran	99.9	10	0.005	1 l
1.08326.0161	Toluene	99.9	10	0.005	150 ml
1.08326.1001	Toluene	99.9	10	0.005	1 l

Products also available in other pack sizes without septum cap (e.g. 500 ml and 2.5 l bottles)

TLC Plates

Features & Benefits

- Merck Reliable Quality
- Widest range of TLC plates : various sizes and backings (Aluminium, Glass & Plastic)
- Countless applications on Merck TLC plates published in literature demonstrating our leading position



TLC: Thin layer chromatography

Order number	Product Description
1.05582.0001	TLC Silica gel 60 with concentrating zone 2.5 x 20 cm 25 aluminium sheets 20 x 20 cm
1.05554.0001	TLC Silica gel 60 F ₂₅₄ 25 aluminium sheets 20 x 20 cm
1.16834.0001	TLC Silica gel 60 F ₂₅₄ 50 aluminium sheets 5 x 10 cm
1.05715.0001	TLC Silica gel 60 F ₂₅₄ 25 glass plates 20 x 20 cm
1.05789.0001	TLC Silica gel 60 F ₂₅₄ 200 glass plates 5 x 10 cm
1.15327.0001	TLC Silica gel 60 F ₂₅₄ 100 glass plates 2.5 x 7.5 cm
1.05559.0001	TLC Silica gel 60 RP-18 F _{254s} 20 aluminium sheets 20 x 20 cm

Coupling Reagents

Our high quality innovative Novabiochem® coupling reagents offer a variety of options for the organic chemist for their amide bond formation reactions.

Novabiochem® Coupling Reagents

Item Number	Product Name	Size	Item Number	Product Name	Size
8.51006.0005	HBTU	5 g	8.51085.0005	COMU	5 g
8.51006.0025	HBTU	25 g	8.51085.0025	COMU	25 g
8.51006.0100	HBTU	100 g	8.51085.0100	COMU	100 g
8.51011.0001	MSNT	1 g	8.51087.0005	PyClock	5 g
8.51011.0005	MSNT	5 g	8.51087.0025	PyClock	25 g
8.51011.0025	MSNT	25 g	8.51087.0100	PyClock	100 g
8.51009.0005	PyBOP®	5 g	8.51088.0005	TOTU	5 g
8.51009.0025	PyBOP®	25 g	8.51088.0025	TOTU	25 g
8.51009.0100	PyBOP®	100 g	8.51088.0100	TOTU	100 g
8.51007.0005	WSC · HCl	5 g	8.51090.0001	TFFH	1 g
8.51007.0025	WSC · HCl	25 g	8.51090.0005	TFFH	5 g
8.51012.0005	HCTU	5 g	8.51090.0025	TFFH	25 g
8.51012.0025	HCTU	25 g	8.51091.0005	DEPBT	5 g
8.51012.0100	HCTU	100 g	8.51091.0025	DEPBT	25 g
8.51013.0005	HATU	5 g	8.51091.0100	DEPBT	100 g
8.51013.0025	HATU	25 g	8.51095.0005	PyOxim	5 g
8.51013.0100	HATU	100 g	8.51095.0025	PyOxim	25 g
8.51086.0025	Oxyma Pure	25 g	8.51095.0100	PyOxim	100 g
8.51086.0100	Oxyma Pure	100 g			



LiChrolut® Cartridges

Merck Millipore LiChrolut® cartridges for solid phase extraction (SPE) are sold in more than 45 countries worldwide and are mentioned in more than 250 publications. LiChrolut® SPE cartridges are ideal sample preparation tools to support efficient and long lasting HPLC analysis.



LiChrolut® Cartridges

Item number	Product name	Qty/Pk
1.19870.0001	LiChrolut® EN 200 mg 3 ml standard PP-tubes	30 units
1.19127.0001	LiChrolut® Florisil® (150–250 µm) 1.000 mg 6 ml standard PP-tubes	30 units
1.02023.0001	LiChrolut® RP-18 (40–63 µm) 500 mg 3 ml standard PP-tubes	50 units
1.02024.0001	LiChrolut® Si (40–63 µm) 500 mg 3 ml standard PP-tubes	50 units



For further information on Merck Millipore and our products contact:

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