

# UCT's Clean-Up®- Metal Scavenging Thiopropyl

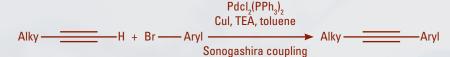


Organic Loading: 6.5% Surface Area: 500m²/g Average Pore Size: 60Å Pore Volume: 0.77cm³/g

### **Metals Targeted**

Best Metals Scavenged: Ag, Hg, Os, Pd & Ru Good Metals Scavenged: Cu, Ir, Pb, Rh & Sn

# Case Study: Removal of Palladium from Sonogashira Coupling Reaction Using Various Metal Scavengers



Pd in toluene solution (ppm)	Pd with respect to substrate (ppm)
45.0	1800
<3	< 120
3.9	156
< 3	< 120
3.0	120
< 3	< 120
4.9	196
4.0	160
6.7	268
4.7	188
4.9	196
5.4	216
6.2	248
4.4	176
< 3	< 120
5.0	200
4.0	160
7.4	296
5.0	200
20.5	820
16.2	648
8.6	344
	(ppm) 45.0 <3 3.9 <3 3.0 <3 4.9 4.0 6.7 4.7 4.9 5.4 6.2 4.4 <3 5.0 4.0 7.4 5.0 20.5

<sup>\*</sup>All samples were incubated overnight at ambient temperature before filtration and all of them received 50 wt% loading of scavenger as is typical for our first screen.





PRICES AND TERMS
Our prices are subject to change without notice. The price in effect when we receive your order will apply. All prices are in US Dollars and are F.O.B.
Lewistown, PA 17044. Terms of

payment are net 30 days.

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We welcome all orders,
therefore, we do not have a
minimum order requirement.
When ordering, please include
your purchase order number,
complete "Ship To" and "Bill
To" address, catalog number,
quantity, and description of
product(s). Also include your
name and a phone number
where you can be reached
should we have any questions
concerning your order.

#### SHIPMENTS

Normal processing is within 24 hours after receipt of an order. Unless special shipping requests have been made, our trained staff will send all orders by UPS Ground service. The appropriate shipping charges (freight & insurance costs) will be added to the invoice, unless otherwise instructed by the customer.

## SPECIAL PRICING

We offer special pricing for volume purchases and standing orders. These discounts apply to bonded phase extraction column purchases only. Please call a sales representative for more information on special pricing qualifications.

RETURN POLICY

Our Quality Manager will handle all returns. Before returning merchandise, please call to obtain a return authorization number from the quality man ager. We will need to know the reason for the return, date of purchase, purchase order number and invoice number in order to issue a return authorization number. Return merchandise must be received before a credit can be issued. Returns will not be accepted after 90 days. A restocking fee of 25% of the price paid, or a minimum of \$25.00 (whichever is greater) will be charged on all returns.

#### WARRANTY

All products manufactured by UCT are guaranteed against defects in materials and workmanship for a period of 90 days after shipment. UCT, Inc. will replace any items that prove to be defective during this time period.

The exclusive remedy requires the end user to first advise UCT, Inc. of the defective product by phone or in writing. Secondly, the defective product must be returned within 30 days after proper approval from our Quality Manager. All returns must indicate the purchase order number, the lot number and the shipping date. UCT's total liability is limited to the replacement cost of UCT products.

This warranty does not apply to damage resulting from misuse.

PLACING AN ORDER

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