

# Pt(0) EnCat™ 40

## Encapsulated Platinum Hydrogenation Catalyst

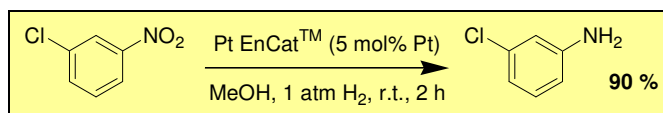
Pt(0) EnCat™ 40 is a versatile hydrogenation catalyst demonstrating high chemoselectivity and improved safety profile allowing easier, faster and cleaner processes to be developed; isolating active platinum within polymer matrix beads has produced an easy to employ catalyst and a safer alternative to platinum on carbon.

<b>Cleaner products</b>	typically < 2 ppm Pt in crude products by ICP analysis
<b>High selectivity</b>	selective hydrogenation reactions
<b>Cleaner waste streams</b>	Pt metal remains entrapped within the beads
<b>Fast, efficient processes</b>	Pt(0) EnCat™ 40 beads removed by simple filtration
<b>Improved safety profile</b>	initial tests show no tendency to ignite on exposure to air
<b>No plant contamination</b>	Pt metal remains entrapped within the beads
<b>Process intensification</b>	use in batch or flow processes

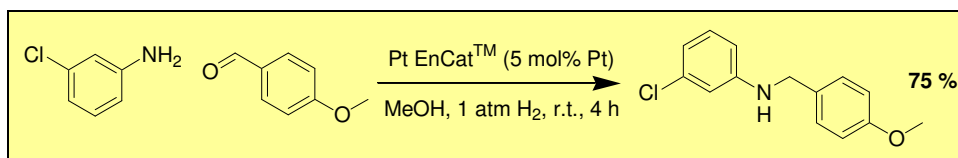
Product	Sigma-Aldrich Catalogue #	Pt Metal Content w/w%	Pt Loading mmol/g	Particle Size Range µm (average)
Pt(0) EnCat™ 40	681504	2.3	0.12	100-350 (200)

### Examples of Pt(0) EnCat™ 40 Applications:

Highly selective nitro hydrogenations with very low dechlorination



Highly selective reductive aminations reducing imines over aryl aldehydes in the presence of halides



R&D Quantities of Pt(0) EnCat™ 40 are available from Sigma-Aldrich  
Product # 681504, [www.sigmaaldrich.com](http://www.sigmaaldrich.com)

For further information on applications and bulk supply please contact [info@reaxa.com](mailto:info@reaxa.com)

