

Pt(0) EnCat™ 40

Encapsulated Platinum Hydrogenation Catalyst

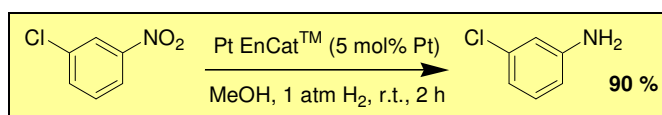
Pt(0) EnCat™ 40 is a versatile hydrogenation catalyst demonstrating high chemoselectivity and improved safety profile allowing easier, faster and cleaner processes to be developed; isolating active platinum within polymer matrix beads has produced an easy to employ catalyst and a safer alternative to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

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

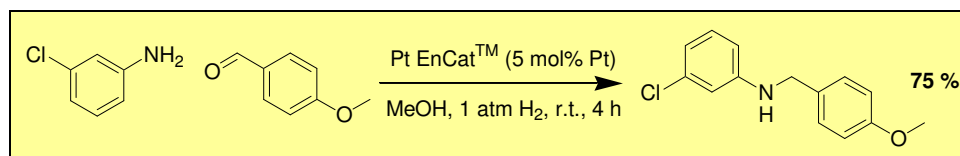
Product	Sigma-Aldrich Catalogue #	Pt Metal Content w/w%	Pt Loading mmol/g	Particle Size Range µm (average)
Pt(0) EnCat™ 40	681504	2.3	0.12	100-350 (200)

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

For further information on applications and bulk supply please contact info@reaxa.com

