



4601, boul. des Grandes Prairies  
Montréal, Québec, H1R 1A5  
T. (800) 363-9861  
F. (888) 363-9861  
www.acpchem.com

Date : 2018-08-10

## CERTIFICATE OF ANALYSIS

PRODUCT: D3183  
Xphos,2-dicyclohexylphosphino- 2',4',6'-  
triisopropylbiphenyl

FW:

LOT:

<u>TEST</u>	<u>SPECIFICATIONS</u>	<u>RESULTS/</u>
Assay	≥ 99 %	99.7 %
Melting point	185.0 – 188.0	Conforms

A handwritten signature in blue ink, appearing to read 'Benoit', is written over a horizontal line.

Quality Control Department



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2018-08-10

**CERTIFICATE FOR ABSENCE OF MELAMINE IN  
Xphos,2-DICYCLOHEXYLPHOSPHINO- 2',4',6'-TRISOPROPYLBIPHENYL  
D3183**

Dear Customer,

ACP Chemicals, Inc. certifies that the materials and processes used in the manufacture of xphos,2-dicyclohexylphosphino- 2',4',6'-triisopropylbiphenyl D3183

Do not include or introduce melamine or melamine derivatives. Standard operating procedures are in place to control and prevent cross contamination of the material.

Sincerely,

A handwritten signature in cursive script that reads 'Lorenzo Izzi'.

Lorenzo Izzi,  
B.Sc., Chemist



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August 10, 2018

Dear Customer,

Per your request, this letter is to confirm the product(s) listed below purchased by your company from ACP Chemicals are not made from animal origins. These product(s) are produced from mineral chemicals. There are no animal source raw materials or additives used in the manufacture of these product(s). This product does not contain extracts of the brain, bone marrow, spinal cord or eyes of any animal. None of the raw materials were purchased from countries that are on the bovine spongiform encephalopathy (BSE - "Mad Cow") list.

**Product List**

Xphos,2-dicyclohexylphosphino- 2',4',6'-triisopropylbiphenyl/; D3183  
(all formats, all lots)

If you have any additional technical questions on these products please call our Customers Service department at 514-327-0323

Sincerely,

A handwritten signature in cursive script that reads 'Lorenzo Izzi'.

Lorenzo Izzi,  
Chemist