ENGELHARD

High purity homogeneous catalyst (Pd-Acetate)

Enabling batch-to-batch consistency

Product information

Advanced catalysis technology

Engelhard high purity homogeneous palladium acetate (Pd-acetate) catalyst is an ultra-pure version of a trimeric palladium acetate complex. The product purity of this non-halide containing material is in excess of 99%, as confirmed by both solution ^{1}H and ^{13}C NMR (see chart) and elemental analyses. Scanning Electron Microscopy indicates high product purity when compared to conventional product.

This technology was specifically designed for use in fine chemical applications that require consistent batch-to-batch reproducibility. Another benefit is the obtained decreased impurity level due to less by-product formation. Reactions also demonstrated increased process throughput, and in some cases increased primary product yield.

Typical applications

Palladium acetate serves as a precursor for the synthesis of (in situ) homogeneous palladium catalysts. It is also used as a catalyst, by itself, in a variety of catalytic applications including carbonylation, oxidation, and a variety of coupling reactions such as Heck, Suzuki, Sonogashira or Buchwald-Hartwig.

Availability

Research quantities are available by order through Strem Chemicals, Inc. on the web at www.strem.com. Commercial quantities are available directly from Engelhard by calling one of the following regional offices:

- **+1-800-336-8559 (U.S.)**
- **+39-06-41992605 (EU)**
- **+91-22-26164159 (Asia)**

About Engelhard

Engelhard Corporation is a surface and materials science company that develops technologies to improve customers' products and processes. A Fortune® 500 company, Engelhard is a world-leading provider of technologies for environmental process, appearance and performance applications.

For more information regarding Engelhard high purity homogeneous catalysts or any other Engelhard technologies, visit us at www.engelhard.com/pharma, or simply e-mail us with any questions at chemicals@engelhard.com.

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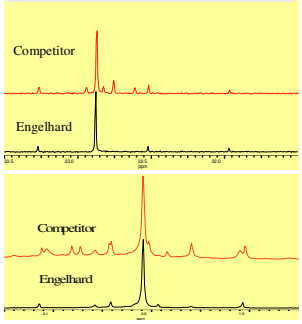
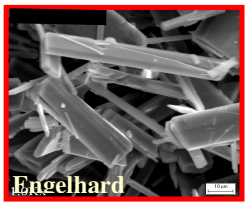
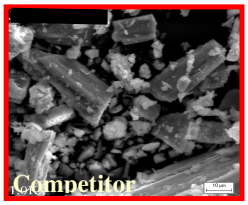
Typical ^{1}H and $^{13}C\{^{1}H\}$ NMR







Specifications	
Description	Gold-brown crystals
Formula	$[Pd(C_2H_3O_2)_2]_3$
Molecular weight	673.47
CAS number	3375-31-3
Typical physical properties	
Solubility	Ether, chloroform, acetone
Melting point	205° C
Elemental analyses obs. (calc.)	**Pd** 47.15 (47.42); **C** 21.2 (21.40); **H** 2.65 (2.67); **O** 28.32 (28.51)

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