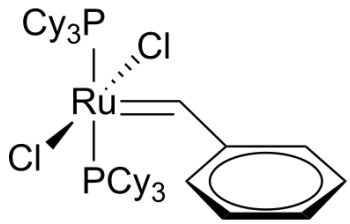
CATAPOWER ORGANOMETALLICS

• WORKING TOWARDS CREATING A MORE SUSTAINABLE FUTURE •

Grubbs Catalyst, 1st Generation Benzylidene

benzylidene-bis(tricyclohexylphosphine)dichlororuthenium



CAS number:	**172222-30-9**
Chemical formula:	**$C_{43}H_{72}Cl_2P_2Ru$**
Molecular weight:	**822.96 g/mol**
Melting point:	**153° C**
Boiling point:	**N/A**
Storage temperature:	**2–8° C**
Appearance:	**violet powder**
Package quantity:	**1 g**
Product code:	**20-02001**

This product is air- and light-sensitive and should be stored under inert conditions.

Samples are available upon request.

FEATURES

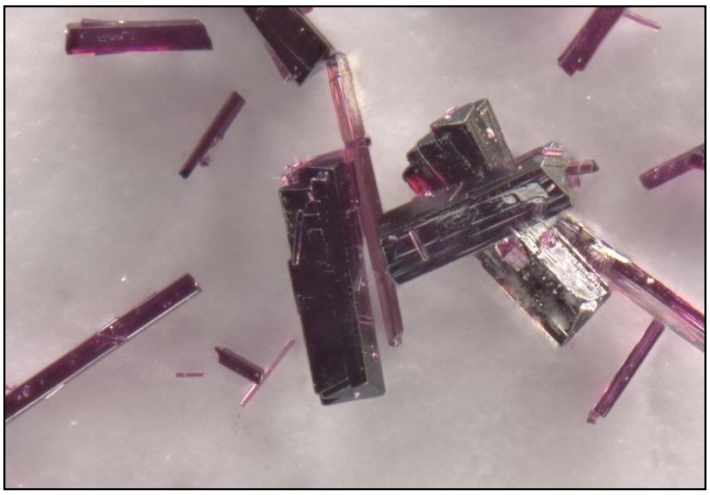
Grubbs catalysts are highly effective and widely used in olefin metathesis reactions. Metathesis reactions are desirable over other organic reaction methods as they reduce hazardous waste, increase yield, and minimize environmental impact. Grubbs catalysts are versatile and can be used in pharmaceutical, agricultural, and oleochemical industries. Catapower's Grubbs 1st generation benzylidene catalyst is over **97% pure**—verified by proton NMR. Our team has developed synthetic protocols which produce superior crystallinity when compared with our competitor's product.

At Catapower, we practice sustainable chemical manufacturing. All of our products are proudly made in California.

APPLICATIONS

This Grubbs 1st generation catalyst variant is useful in many applications, including:

- ring-opening (ROM) and ring-closing metathesis (RCM)
- ring-opening metathesis polymerization (ROMP)
- cross-metathesis (CM), with a variety of substrates:
  - terminal olefins
  - primary allylic halides, ethers, esters, silanes, and boronates
  - primary and secondary allylic alcohols
  - styrenes
  - vinyl boronates and dioxolanes



Micrograph demonstrating exceptional crystallinity.

CATAPOWER

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