Technical Data Sheet

Pentamethylcyclopentadienyl bis(triphenylphosphine)ruthenium(II) chloride

CAS No.	92361-49-4
Formula	$Cp^*RuCl(PPh_3)_2$
Molar Mass (gm/mol)	796.32
Grade	RM HC 3112
Appearance	Brown to dark brown
Metal Content	12.7
Melting Point (°C)	142°C

Storage Condition

- Store in a tightly, closed container under inert gas at ambient temperature.

Application

- serves as a catalyst for the fusion of organic azides and terminal alkynes, producing 1,5-disubstituted 1,2,3-triazoles exclusively. Unlike copper catalysis (which yields 1,4-disubstituted triazoles), this ruthenium catalyst allows for the use of internal alkynes, resulting in fully substituted 1,2,3-triazoles