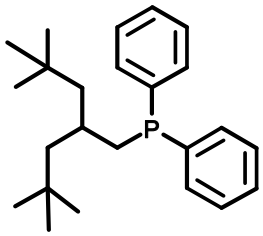
Date: July 29, 2025

Hokko Chemical Industry Co., Ltd.

Notice of License Agreement with ENEOS Corporation and Start of Sample Sales for the New Phosphine Ligand "TIBDPP"

We are pleased to announce that we have entered into a license agreement with ENEOS Corporation for the manufacture and sale of a new phosphine compound, 2,2,6,6-tetramethyl-4-methyleneheptyldiphenyl phosphine (abbreviated as TIBDPP; structural formula below). In addition, we will begin offering small sample quantities[*1] of this compound for trial use starting in September of this year.

Chemical Structure of TIBDPP:



In the production of pharmaceuticals, pharmaceutical intermediates, and functional materials, the Suzuki–Miyaura coupling reaction—using palladium compounds and alkylphosphine ligands as catalysts—is widely employed.

TIBDPP, as a new ligand, has been reported[*2] to show extremely high performance when used in catalytic systems with nickel compounds, which are both inexpensive and readily available. TIBDPP is a novel ligand that enables both cost reduction and resource sustainability.

This compound was developed through collaboration between ENEOS Corporation and Professor Kouki Matsubara of the Faculty of Science at Fukuoka University. It will be presented at both the upcoming OMCOS international symposium[*3] and the Organometallic Chemistry Symposium[*4] to be held in September this year.

Contact Information:

Department:	Development Management Team, Fine Chemicals Business Planning Department
Phone:	+81-3-3279-5142
Web Link:	https://www.hokkochem.co.jp/english/contact-e

For the related press release from ENEOS Corporation, please refer to their website at the following URL:

https://www.eneos.co.jp/newsrelease/

Notes:

[*1] Provided for research and testing purposes only

[*2] Presented at the 70th Symposium on Organometallic Chemistry, Japan, Division of Organometallic Chemistry, Kinka Chemical Society, Japan

[*3] OMCOS XXII (22nd International Symposium on Organometallic Chemistry Directed Toward Organic Synthesis)

[*4] 71st Symposium on Organometallic Chemistry, Japan, Division of Organometallic Chemistry, Kinka Chemical Society, Japan