Amphos

[4-(N,N-Dimethylamino)phenyl]di-tert-butylphosphine



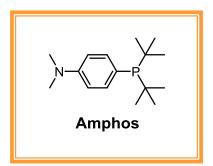
Cross-coupling reaction is well known as one of useful method in Organic Synthetic Chemistry, used widely in many fields, for example, pharmaceuticals, biologically active substances and Material for organic electronics.

[4-(N,N-Dimethylamino)phenyl]di-tert-butylphosphine (Amphos) is available from Kanto Chemical. This ligand is highly active because it has high-electron-releasing ^tBu and also stable, then recently it attracts attention from catalytic chemical fields.



Features

- Stable & Low enzyme inactivation, possible to handle in a air.
- Useful for various type cross-coupling reactions
 - Ex) Suzuki-Miyaura reaction, Buchwald-Hartwig reaction, Negishi reaction



[Suzuki-Miyaura coulpling reaction] 1)



Cat. #	Name	Packing Size	
11335-55	[4-(<i>N</i> , <i>N</i> -Dimethylamino)phenyl]di- <i>tert</i> -butylphosphine [932710-63-9] FW:265.37	5 g	
11335-65	[332710 03 3] 1 11.203.37	1 g	

KANTO CHEMICAL CO., INC.

[Buchwald-Hartwig coupling reaction]2)

Alkyl halide

Amine compound

$$R^1$$
 R^2
 R^2
 R^2
 R^2

Yield: 71 to 98%²⁾

igstar Related products \sim Cross Coupling Ligands and Pd-Catalysts \sim

	Cat. No.	Product Name	Structure	Suzuki- Miyaura	Buchwald -Hartwig	Negishi	Sonogashira	Stability (under Air)
Ligand	11335-55 11335-65	Amphos	N-_P	0	0	0		0
Buchwald Ligand	11051-55 11051-65	XPhos [564483-18-7] 2-Dicyclohexylphosphino- 2',4',6'-triisopropylbiphenyl FW: 476.72	PCv ₂	0	0			0
	11049-55 11049-65	SPhos [657408-07-6] 2-Dicyclohexylphosphino- 2',6'- dimethoxybiphenyl FW: 410.53	PCy ₂ MeO OMe	0	0			0
Pd-Cataly st	40864-35 40864-55 40864-65	Pd(PPh ₃) ₄ [14221-01-3] Tetrakis(triphenylphosphine)palladium(0) FW: 1155.56	Ph Ph-P-Pd Ph 4	0		0	0	×
	34868-1 A	$Pd(dppf)Cl_2\cdot CH_2Cl_2$ [95464-05-4] [1,1-Bis(diphenylphosphino)ferrocene] palladium(II) Dichloride FW: 816.64	Ph Fe PdCl ₂ P-Ph • CH ₂ Cl ₂	0		0		0

[Reference]

- 1) A. S. Guram, et. al., J. Org. Chem., 2007, 72, 5104-5112.
- 2) C. Anthony, et. al., Organometallics, 2011, 30, 4432-4436.
- Please use the products listed in the catalog as reagents (chemicals used for testing or research purpose).
- Product information is subject to change without notice. For the latest information, please have a look at our website "Cica-Web".



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