

Phosphine Ligands

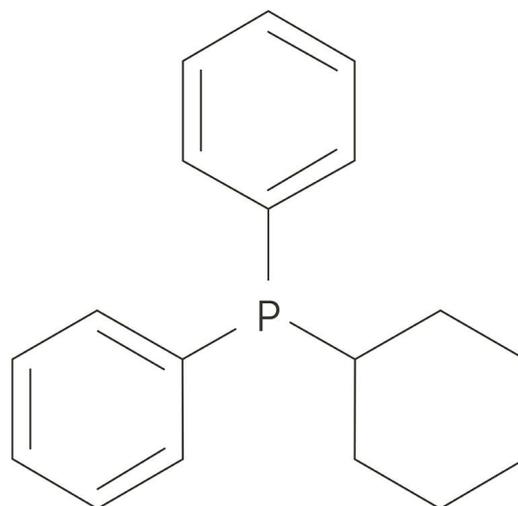
Bulky, electron-rich phosphine ligands for catalytic reactions

As a leader in specialty chemicals and advanced materials for the microelectronics, life sciences, and other high-tech industries, we can accelerate your new product development efforts and manufacturing supply chain by providing critical materials at the appropriate scale, and within the communicated delivery schedule. Our portfolio of phosphine ligands is tailored to your manufacturing requirements and specifications to meet your high-quality customized needs.

Our experienced R&D teams provide deep chemistry expertise in an innovative culture to deliver custom synthesis solutions that meet your proprietary development needs. With our extensive manufacturing capabilities, we can handle a range of projects from grams to metric ton quantities, through scale-up and full commercialization. We also provide chemical process development, piloting, and custom chemical manufacturing.

APPLICATIONS

- Active pharmaceutical ingredients (APIs) for small molecule drug manufacturing
- Industrial polymer manufacturing



FEATURES & BENEFITS

High purity ligands	Enable reproducible and economical manufacturing with highest quality and purities for consistent yields and results
Air, moisture, and thermally stable	Allows for safe handling ease, cost-efficient loading, and a more predictable performance outcome
Customer collaboration	Proactive and regular team communication and encouraged site visits enable beneficial idea exchange and enhance on-track progress
Advanced scientific expertise	Technical transfers, R&D, scale-up optimization, and continuous improvement are conducted by PhD chemist-led teams that are supported by world-class quality and analytical resources
ISO 9001 and 14001 certifications	<p>The Entegris quality management system (QMS) certified by the ISO 9001 standard ensures provision of consistent quality products meeting customer and regulatory requirements</p> <p>The Entegris environmental management system (EMS) following the ISO 14001 standard assures a strategic and integrated approach to managing and improving environmental performance</p>

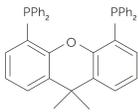
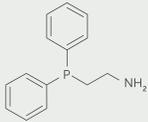
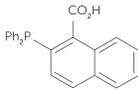
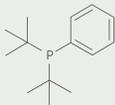
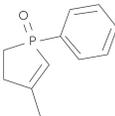
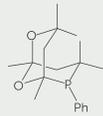
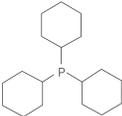
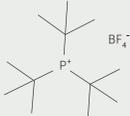
SPECIFICATIONS

Our products are made to strict specifications and our experienced R&D teams can partner with you to meet your proprietary development needs. With our manufacturing capabilities and resources, we can deliver on communicated timing requirements as well as high-quality customized solutions. [Contact us](#) with your specifications.

Product Portfolio

Catalog #	CAS #	Common Name	Product	Structure
BIP2047	894086-00-1	BippyPhos	5-[Bis(tert-butyl)phosphino]-1',3',5'-triphenyl-1,4'-bi-1H-pyrazole	
BIS0212	6737-42-4	DPPP	1,3-Bis(diphenylphosphino)propane	
BIS0508	1663-45-2	DPPE	1,2-Bis(diphenylphosphino)ethane	
BIS0758	98327-87-8	Racemic BINAP	2,2'-Bis(diphenylphosphino)-1,1'-binaphthyl	
BIS1067	84680-95-5	-	1,1'-Bis(di-tert-butylphosphino)ferrocene	
BIS1186	97239-80-0	-	1,1'-Bis(diisopropylphosphino)ferrocene	
BIS1823	84783-64-2	BiPHEP	2,2'-Bis(diphenylphosphino)-1,1'-biphenyl	
BUT1891	93634-87-8	-	tert-Butyldicyclohexylphosphine	
BUT2243	1816254-91-7	-	n-Butyl(di-tertbutyl)phosphoniumtetrafluoroborate	
DIM0729	612-66-2	-	Dimethyl(phenyl)phosphine	

SPECIFICATIONS

Catalog #	CAS #	Common Name	Product	Structure
DIM1700	161265-03-8	Xantphos	9,9-Dimethyl-4,5-bis(diphenylphosphino)xanthene	
DIP1442	4848-43-5	DPPEA	2-(Diphenylphosphino)ethylamine	
DIP2168	178176-80-2	-	2-(Diphenylphosphino)-1-naphthoic acid	
DIT1217	32673-25-9	-	Di-tert-butylphenylphosphine	
MET0525	707-61-9	MPPO	3-Methyl-1-phenyl-2-phospholene-1-oxide	
TET2165	97739-46-3	CgMe-PPh	1,3,5,7-Tetramethyl-2,4,8-trioxa-6-phosphaadamantane	
TRI0907	2622-14-2	TCHP	Tricyclohexylphosphine	
TRI1691	131274-22-1	HB F_4 salt	Tri-tert-butylphosphine	

FOR MORE INFORMATION

Please call your Regional Customer Service Center today to learn what Entegris can do for you. Visit entegris.com and select the [Contact Us](#) link to find the customer service center nearest you.

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