umicore

TMCat Ni non-PGM catalysts

homogeneous catalysts for cross-couplings and beyond

non-PGM catalysts for cross-couplings and beyond

Expanding the scope of a full suite of cross-coupling transformations

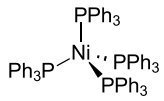
Umicore PMC introduces a novel base metal catalysts product line offering additional reactivity and sufficient stability in chemical transformations facilitating applications in fine chemicals, pharmaceuticals and agrochemicals synthesis.

Homogeneous base metal catalysts are a promising addition to traditional platinum group metal (PGM) catalysts as they can offer unique reactivity trends resulting from alternative mechanistic pathways. Nickel undergoes more facile oxidative addition (0, +1, +2, +3, +4), can adopt a variety of oxidation states, is more able to access one-electron reduction/oxidation pathways and is less likely to facilitate β-hydride elimination.

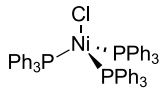
Umicore PMC is committed to providing its customers with the highest quality products and services and differentiates itself by offering advanced, innovative solutions. We believe that our new line of homogeneous base metal catalysts will help us achieve this goal.

Learn more about the key advantages of TMCat Ni and visit our dedicated website or ask one of our experts.

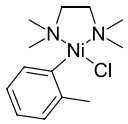
TMCat Ni product portfolio



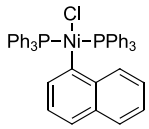
Trade name	TMCat Ni12
Empirical formula	$[Ni(PPh_3)_4]$
CAS no.	15133-82-1



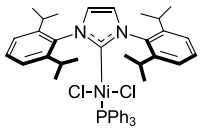
Trade name	TMCat Ni301
Empirical formula	$[NiCl(PPh_3)_3]$
CAS no.	15169-64-9



Trade name	TMCat Ni500
Empirical formula	Ni(TMEDA)(o-tolyl)Cl
CAS no.	1702744-45-3



Trade name	TMCat Ni531
Empirical formula	$Ni(Nap)(PPh_3)_2Cl$
CAS no.	54806-25-6



Trade name	TMCat Ni701
Empirical formula	$(IPr)Ni(PPh_3)Cl_2$
CAS no.	903592-98-3

Compared with palladium-based catalysts, complexes of nickel demonstrate a variety of differing and co plementary reactivity.

For inquiries and additional information please contact

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