

Metal Scavengers (R-Cat-Sil)



Kanto Reagents

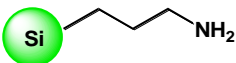
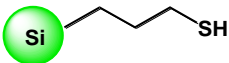
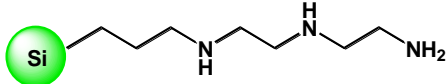
Molecular transformation reaction using Organometallic complex as catalyst is very useful reaction in the organic synthesis field.

However, there is some cases which its difficult to separate target compound and catalyst. We Kanto Chemical launched product which is easy to scavenge metal catalyst, "R-Cat-Sil (Metal Scavengers as silica gel with function) "

◆ Features

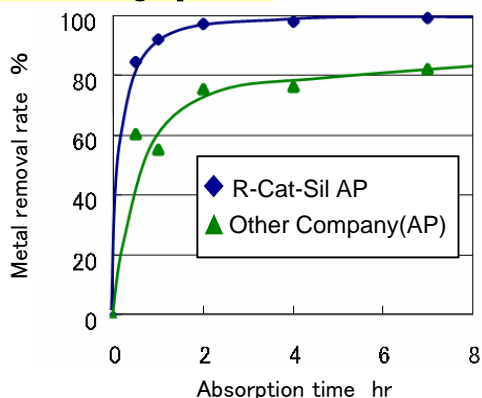
- Large surface area, **High adsorption power**
- Not swelling, **Available for broad range of solvents**
- **Stable physically & thermally**

◆ Product List

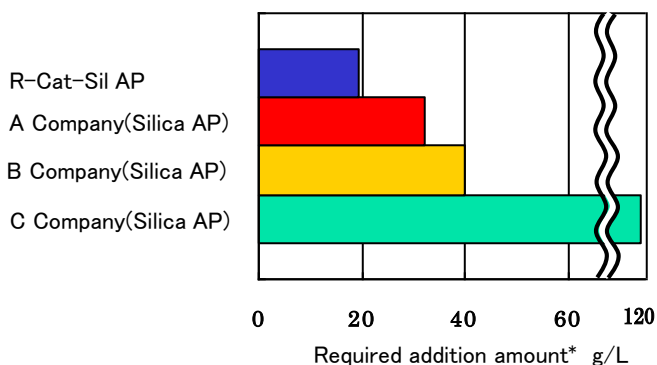
| Name | Cat.# | Package | |
|---|---|----------|-------|
| R-Cat-Sil AP Loading : 2.0 mmol/g <Metals removed> Pd, Ru, Rh, Co Cu, Fe, Ni |  | 36044-55 | 5 g |
| | | 36044-35 | 25 g |
| | | 36044-25 | 100 g |
| R-Cat-Sil MP Loading : 1.2 mmol/g <Metals removed> Pd, Ru, Rh, Cu Pt, Pb, Ag, Hg |  | 36045-55 | 5 g |
| | | 36045-35 | 25 g |
| | | 36045-25 | 100 g |
| R-Cat-Sil TA Loading : 1.0 mmol/g <Metals removed> Pd, Rh, Co, Cu Fe, Zn, Pt |  | 36046-55 | 5 g |
| | | 36046-35 | 25 g |
| | | 36046-25 | 100 g |

«Reference data» particle size : 50 μ m, specific surface area : 730 m^2/g

Comparison of metal adsorbing speed



Comparison of required addition amount



Scavenger addition amount : 15 g/L
 Metal solution : 1000 ppm Pd (Pd(OAc)₂ in CH₂Cl₂)

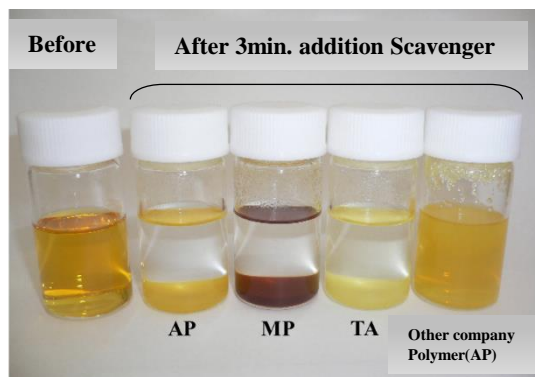
* Addition amount for decreasing Pd concentration (calculate from Freundlich equation) to 0.1 ppm from 1000 ppm (Pd(OAc)₂ in CH₂Cl₂)



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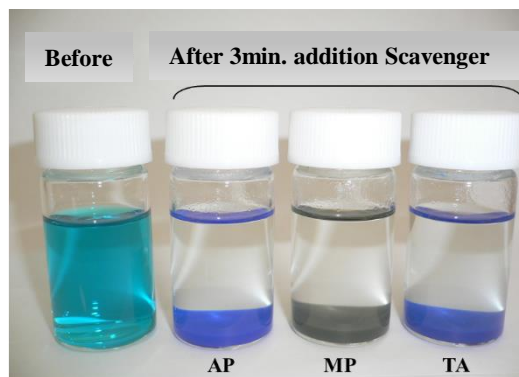
◆ Example for usage application

【 Pd 】



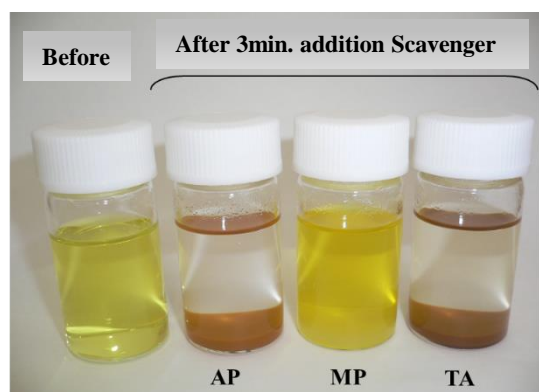
Scavenger addition amount : 50 g/L
Metal solution : 1000 ppm Pd ($\text{Pd}(\text{OAc})_2$ in CH_2Cl_2)

【 Cu 】



Scavenger addition amount : 50 g/L
Metal solution : 1000 ppm Cu ($\text{Cu}(\text{OAc})_2$ in THF)

【 Fe 】



Scavenger addition amount: 50 g/L
Metal solution: 1000 ppm Fe (FeCl_3 in THF)

 **KANTO CHEMICAL CO., INC.**

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