

金属除去効率

■ SiliaBond Metal Scavengers Screening Results

Scavengers	Metal-Based Catalysts – Residual Metal Concentration (% of captation)														
	Cobalt	Chromium	Copper	Iron	Nickel	Palladium				Platinum	Rhodium			Tin	Zinc
	Co(NO ₃) ₂ ^a	CrCl ₂ ^a	Cu(OAc) ₂ ^a	FeCl ₃ ^a	Ni(acac) ₂ ^b	Pd(OAc) ₂ ^b	Pd(allyl) ₂ Cl ₂ ^b	Pd ₂ (dba) ₃ ^b	Pd(PPh ₃) ₄ ^b	H ₂ PtCl ₆ ·6H ₂ O ^b	RhCl ₃ ^b	[Rh(OAc) ₂] ₂ ^b	Wilkinson's ^b	Sn(OTf) ₂ ^b	ZnCl ₂ ^c
Thiol			99.6%			99.4%	99.5%	99.7%	99.4%			99.99%	99.99%		
Thiourea			98.6%			99.99%	99.6%	99.8%	98.3%			99.9%	99.5%		
DMT	-	-	-	-	98.9%		99.7%	99.1%	99.2%	99.99%	98.5%	99.8%	99.99%		-
Amine	99.99%	99.99%	99.7%	99.99%		99.6%	99.6%	99.7%				99.99%	99.99%	99.8%	96.9%
Diamine	99.99%	99.99%	98.9%	99.99%	99.1%	99.7%	99.6%	99.8%		99.8%		99.99%	99.8%	99.99%	94.0%
Triamine	99.8%	99.99%	99.8%			99.99%	99.7%	99.5%	98.8%	99.8%	97.2%	99.1%	99.0%	99.99%	
TAAcOH		99.99%	98.4%	99.8%	99.99%	98.8%									
TAAcONa	99.99%	99.99%	99.8%	99.99%	99.99%		99.6%				99.2%	99.99%		99.99%	98.2%
TBD	99.99%	99.99%		99.99%			99.7%								

反応条件

4 eq. of SiliaBond, 30min, 22° C	4 eq. of SiliaBond, 4h, 22° C	4 eq. of SiliaBond, 4h, 80° C	[4 eq. of SiliaBond, 16h, 80° C
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初期濃度 ^a1 000 ppm in THF ^b1 000 ppm in DMF ^c1000 ppm in water