[U{(SiMe₂NPh)₃-tacn}(OPPh₃)]

The compound was obtained as a dark red solid in quantitative yield by adding one equiv of OPPh₃ to a solution of $[U{(SiMe_2NPh)_3-tacn}]$ in toluene.

¹H-NMR (C₆D₆, 20 °C) 7.40 (6H, *d*, H-o, OPPh₃); 6.97 (6H, *t*, H-m, OPPh₃), 6.58 (6H,

H-m); 6.41 (3H, H-p); 6.07 (6H, CH₂); 5.44 (3H, t, H-p,OPPh₃); 3.27 (6H, b, H-o); -

1.82 (6H, CH₂); -3.18 (18H, SiMe₂)

Dark red crystals of $[U{(SiMe_2NPh)_3-tacn}(OPPh_3)]\cdot 2C_7H_8$ were obtained from a concentrated solution of $[U{(SiMe_2NPh)_3-tacn}(OPPh_3)]$ in toluene. The molecular structure is shown in Figure S1 and selected bond distances and angles are given in Table S1.

Data were collected at 110K on a Bruker APEX CCD area-detector diffractometer with graphite-monochromatized MoK_{α} radiation (λ =0.71069 Å) in the ϕ and ω scan mode. The structure was solved by direct methods using SIR97²⁵ and refined by full-matrix least squares refinements on F² using SHELXL-97²⁴ and the winGX software package.²⁶ All non-hydrogen atoms were refined with anisotropic thermal motion parameters, and the hydrogen atoms were assigned idealized positions based on the geometries of their attached carbon atoms. The drawing was made with ORTEP 3.²⁷ A summary of the crystallographic data is given in Table S2.

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 Table S1. Selected bond lengths [Å] and angles (deg.) for

U-N(1)	2.454(3)
U-N(2)	2.468(3)
U-N(3)	2.436(2)
U-N(4)	2.762(3)
U-N(5)	2.785(3)
U-N(6)	2.750(3)
U-0	2.483(2)
N(1)-U-N(2)	120.56(9)
N(1)-U-N(3)	117.35(9)
N(2)-U-N(3)	118.43(9)
O-U-N(1)	84.36(8)
O-U-N(2)	83.79(8)
O-U-N(3)	82.69(8)

 $[U{(SiMe_2NPh)_3-tacn}(OPPh_3)]\cdot 2C_7H_8$

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	$[U{(SiMe_2NPh)_3-tacn}(OPPh_3)] \cdot 2C_7H_8$
Formula	$C_{62}H_{76}N_6Si_3OPU$
fw	1274.56
crystal syst	orthorhombic
space group	P212121
a,Å	12.2797(4)
b,Å	17.8483(6)
c,Å	27.1851(8)
V,Å ³	5958.2(3)
Z	4
ρ_{calc} ,gcm ⁻³	1.421
Crystal size, mm ³	0.28x0.18x0.14
μ (MoK α),mm ⁻¹	2.857
Theta range, °	1.82 to 34.41
Measured reflections	70126
Independent reflections [R(int)]	24465 (0.0590)
Observed reflections	18480
[I>2σ(I)]	
R ₁	0.0481
wR ₂	0.0628

 Table S2. Crystallographic Data

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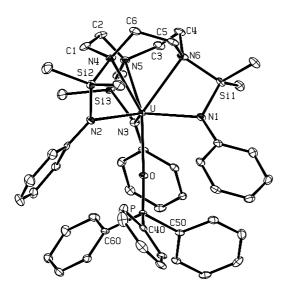


Fig S1 - ORTEP diagram of $[U{(SiMe_2NPh)_3-tacn}(OPPh_3)]$ using 40 % probability ellipsoids