



>>Entry Name: **Tris(1,1,1-trifluoro-2,4-pentanedionato-*O,O'*)neodymium(III)**, 9CI

Synonym(s): Neodymium(III) trifluoroacetylacetonate

CAS Registry Number: 37473-67-9

Related CAS Registry Numbers(s): 18911-80-3

As Tris(1,1,1,5,5,5-hexafluoro-2,4-pentanedionato-*O,O'*)neodymium(III), [HRJ01-F](#) with
 $R^1 = CF_3$, $R^2 = CH_3$

Molecular Formula: $C_{15}H_{12}F_9NdO_6$

Molecular Weight: 603.482

Accurate Mass: 600.956736

Percentage Composition: C 29.85%; H 2.00%; F 28.33%; Nd 23.90%; O 15.91%

>>Derivative: Dihydrate

Molecular Formula: $C_{15}H_{16}F_9NdO_8$

Molecular Weight: 639.512

Accurate Mass: 636.977866

Percentage Composition: C 28.17%; H 2.52%; F 26.74%; Nd 22.55%; O 20.01%

Physical Description: Lavender cryst.

Melting Point: Mp 147-149° (133-134°)

Solubility: V. sol. MeOH; sol. C_6H_6

References:

Marsh, J.K., *J.C.S.*, 1947, 1084, (*synth*)

Berg, E.W. *et al.*, *Anal. Chim. Acta*, 1968, **40**, 101, (*synth*)