



>>Entry Name: Tris(1,3-diphenyl-1,3-propanedionato-*O,O'*)europium(*III*)

Synonym(s): Europium(*III*) dibenzoylmethanide

CAS Registry Number: 14552-07-9

As Tris(1,1,1,5,5,5-hexafluoro-2,4-pentanedionato-*O,O'*)europium(*III*), [HRH46-M](#) with
 $R^1 = R^2 = \text{Ph}$

Molecular Formula: $\text{C}_{45}\text{H}_{33}\text{EuO}_6$

Molecular Weight: 821.717

Accurate Mass: 822.14894

Percentage Composition: C 65.78%; H 4.05%; Eu 18.49%; O 11.68%

Other Data: Fluorescent. Forms adducts with H_2O , alcohols, amines

Other: Gelest AKE286

>>Derivative: Monohydrate

CAS Registry Number: 12121-06-1

Molecular Formula: $\text{C}_{45}\text{H}_{33}\text{EuO}_7$

Molecular Weight: 839.732

Accurate Mass: 840.159505

Percentage Composition: C 64.37%; H 4.20%; Eu 18.10%; O 13.34%

Physical Description: Yellow cryst.

Melting Point: Mp 144-145°. Mp 171°. Mp 230-234°

Other Data: Loses H_2O at 100° *in vacuo*

>>Derivative: Pyridine *N*-oxide complex

CAS Registry Number: 17979-59-8

Molecular Formula: $\text{C}_{50}\text{H}_{38}\text{EuNO}_7$

Molecular Weight: 916.818

Percentage Composition: C 65.50%; H 4.18%; Eu 16.58%; N 1.53%; O 12.22%

Physical Description: Orange-yellow solid

Melting Point: Mp 179-180°

Solubility: Sol. C_6H_6

>>Derivative: Bipy complex

CAS Registry Number: 18079-53-3

Molecular Formula: $\text{C}_{55}\text{H}_{41}\text{EuN}_2\text{O}_6$

Molecular Weight: 977.904

Percentage Composition: C 67.55%; H 4.23%; Eu 15.54%; N 2.86%; O 9.82%

Physical Description: Yellow solid

Melting Point: Mp 210-213°

Solubility: Sol. C_6H_6

>>Derivative: Phen complex

CAS Registry Number: 17904-83-5

Molecular Formula: $\text{C}_{57}\text{H}_{41}\text{EuN}_2\text{O}_6$

Molecular Weight: 1001.926

Percentage Composition: C 68.33%; H 4.12%; Eu 15.17%; N 2.80%; O 9.58%

Physical Description: Yellow solid

Melting Point: Mp 186-188°

Solubility: Sol. C_6H_6 , CHCl_3 , Me_2CO , Py, DMF

References:

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