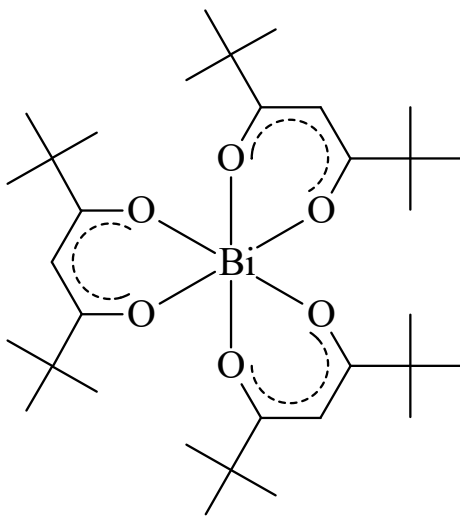




>>Entry Name: Tris(2,2,6,6-tetramethyl-3,5-heptanedionato-*O,O'*)bismuth, 13Cl

Synonym(s): Tris(dipivaloylmethanato)bismuth(III)



CAS Registry Number: 142617-53-6

Molecular Formula: $C_{33}H_{57}BiO_6$

Molecular Weight: 758.79

Accurate Mass: 758.395889

Percentage Composition: C 52.24%; H 7.57%; Bi 27.54%; O 12.65%

>>Derivative: Dimer

CAS Registry Number: 151956-71-7

Molecular Formula: $C_{66}H_{114}Bi_2O_{12}$

Molecular Weight: 1517.58

Accurate Mass: 1516.791778

Percentage Composition: C 52.24%; H 7.57%; Bi 27.54%; O 12.65%

Source/Synthesis: Synth. by heating $BiPh_3$ + dipivaloylmethane

Physical Description: Colourless cryst. (by subl.)

Melting Point: Mp 112-115°

Boiling Point: Bp 216°. Subl._{0.05} 110-150°

Solubility: Readily sol. aprotic org. solvs.

Other Data: Dec. >295°. Pmr 1.18, s, 18H (Me), 5.75, s, 1H (CH) ppm (in $CDCl_3$)

Other: Gelest AKB153.5

References:

- Pisarevskii, A.P. *et al.*, *Zh. Neorg. Khim.*, 1991, **37**, 72; *Russ. J. Inorg. Chem. (Engl. Transl.)*, 1991, **37**, 38, (synth, ir, ms, thermal anal, pmr, cmr)
Fukin, G.K. *et al.*, *Zh. Neorg. Khim.*, 1993, **38**, 1205; *Russ. J. Inorg. Chem. (Engl. Transl.)*, 1993, **38**, 1118, (cryst struct)