

Organic & Biomolecular Chemistry 2010

SUPPORTING INFORMATION

New C_{3v}-Symmetrical Tribenzotriquinacenes Bearing Extended and Oxy-functionalised Alkyl Groups at Their Benzhydrylic Bridgeheads

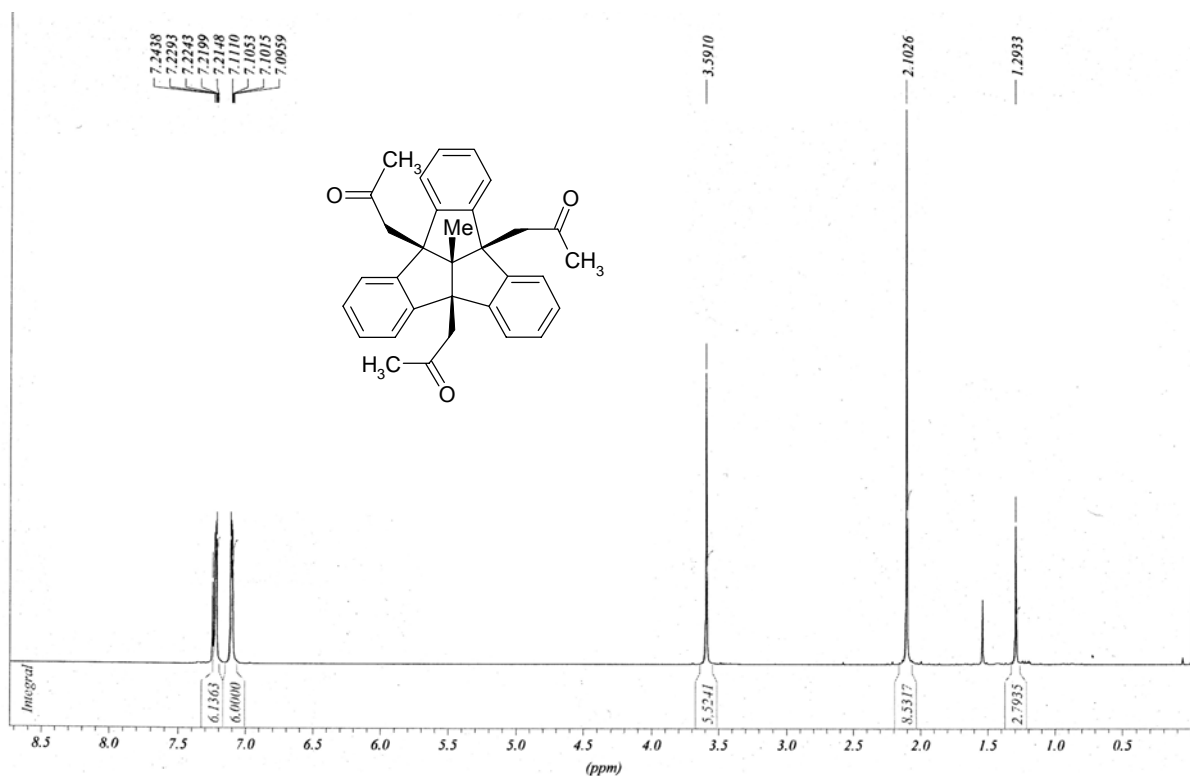
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Universitätsstraße 25, 33615 Bielefeld, Germany*

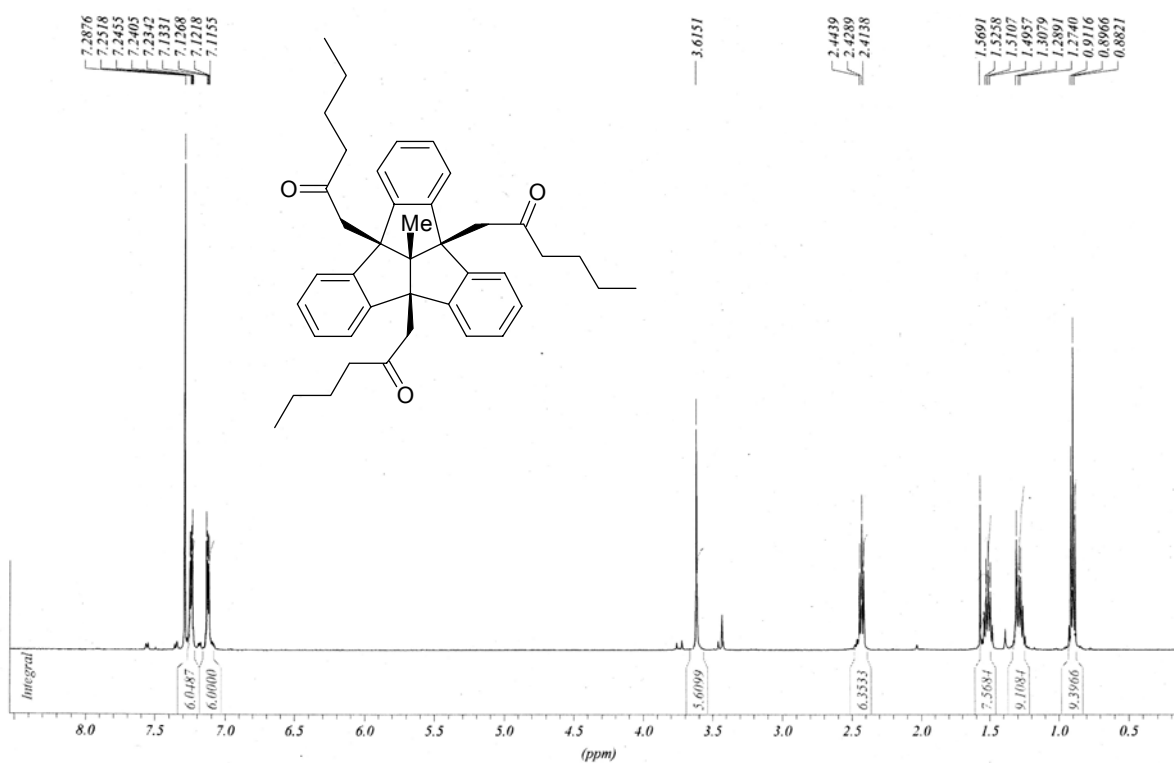
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12d-Methyl-4b,8b,12b-tris(2-oxopropyl)-4b,8b,12b,12d-tetrahydrodibenzo[2,3:4,5]pentaleno[1,6- <i>ab</i>]indene (7)	3
12d-Methyl-4b,8b,12b-tris(2-oxohexyl)-4b,8b,12b,12d-tetrahydrodibenzo[2,3:4,5]pentaleno[1,6- <i>ab</i>]indene (8)	3
2d-Methyl-4b,8b,12b-tris(4-methyl-2-oxopentyl)-4b,8b,12b,12d-tetrahydrodibenzo[2,3:4,5]pentaleno[1,6- <i>ab</i>]indene (9)	4
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12d-Methyl-4b,8b,12b-tris(2-oxoheptyl)-4b,8b,12b,12d-tetrahydrodibenzo[2,3:4,5]pentaleno[1,6- <i>ab</i>]indene (11)	5

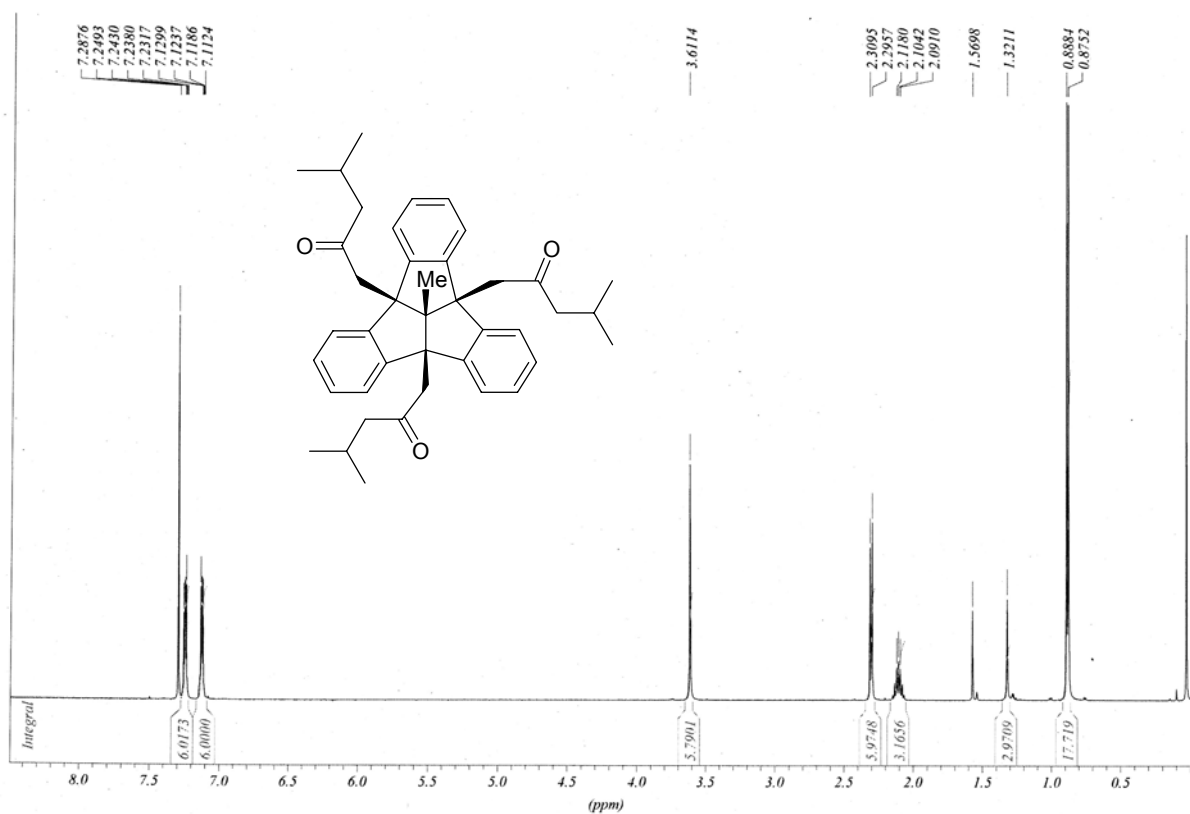
- 12d-Methyl-4b,8b,12b-tris(2-oxononyl)-4b,8b,12b,12d-tetrahydrodibenzo[2,3:4,5]pentaleno[1,6-*ab*]indene (**12**) 5
- 12d-Methyl-4b,8b,12b-tri-*n*-propyl-4b,8b,12b,12d-tetrahydrodibenzo[2,3:4,5]pentaleno[1,6-*ab*]indene [12d-methyl-4b,8b,12b-tri(*n*-propyl)tribenzotriquinacene, **14**] 6
- 4b,8b,12b-Tris(formacylmethyl)-12d-methyl-4b,8b,12b,12d-tetrahydrodibenzo[2,3:4,5]pentaleno[1,6-*ab*]indene (12d-methyltribenzotriquinacene 4b,8b,12b-tris-acetaldehyde, **15**) 6
- 4b,8b,12b-Tris(carboxymethyl)-12d-methyl-4b,8b,12b,12d-tetrahydrodibenzo[2,3:4,5]pentaleno[1,6-*ab*]indene [12d-methyltribenzotriquinacene 4b,8b,12b-tris(acetic acid), **16**] 7
- 4b,8b,12b-Tris(methoxycarbonylmethyl)-12d-methyl-4b,8b,12b,12d-tetrahydrodibenzo[2,3:4,5]pentaleno[1,6-*ab*]indene (trimethyl 12d-methyltribenzotriquinacene 4b,8b,12b-tris-acetate, **17**) 7
- 4b,8b,12b-Tris(2-hydroxyethyl)-12d-methyl-4b,8b,12b,12d-tetrahydrodibenzo[2,3:4,5]pentaleno[1,6-*ab*]indene (12d-methyltribenzotriquinacene 4b,8b,12b-tris-ethanol, **18**) 8
- 4b,8b,12b-Tris(2-butoxyethyl)-12d-methyl-4b,8b,12b,12d-tetrahydrodibenzo[2,3:4,5]pentaleno[1,6-*ab*]indene [12d-methyl-4b,8b,12b-tris(3-oxaheptyl)tribenzotriquinacene, **19**] 8
- 12d-Methyl-2,3,6,7,10,11-hexanitro-4b,8b,12b-tri(*n*-propyl)-4b,8b,12b,12d-tetrahydrodibenzo[2,3:4,5]pentaleno[1,6-*ab*]indene [12d-methyl-2,3,6,7,10,11-hexanitro-4b,8b,12b-tri(*n*-propyl)tribenzotriquinacene, **20**] 9
- 4b,8b,12b-Tris(carboxymethyl)-12d-methyl-2,3,6,7,10,11-hexanitro-4b,8b,12b,12d-tetrahydrodibenzo[2,3:4,5]pentaleno[1,6-*ab*]indene [12d-methyl-2,3,6,7,10,11-hexanitrotribenzotriquinacene 4b,8b,12b-tris(acetic acid), **21**] 9



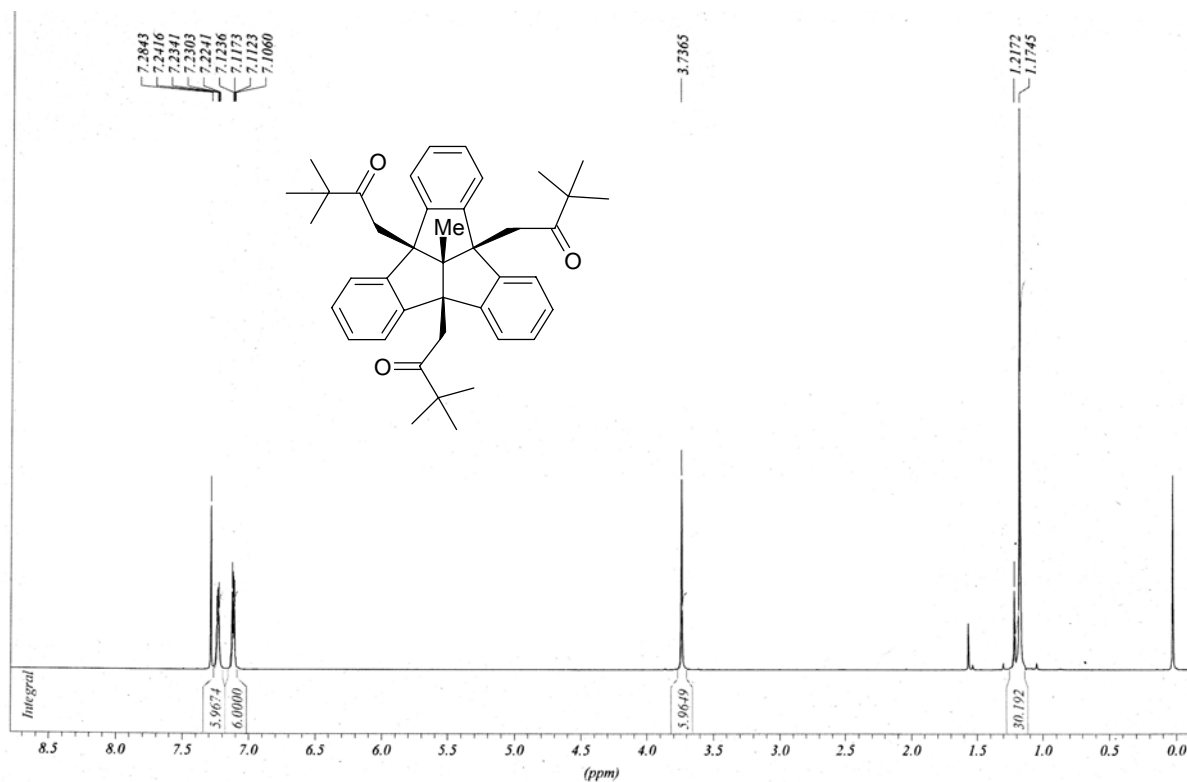
12d-Methyl-4b,8b,12b-tris(2-oxopropyl)-4b,8b,12b,12d-tetrahydrodibenzo[2,3:4,5]pentaleno[1,6-*ab*]indene (**7**) (600 MHz, CDCl₃)



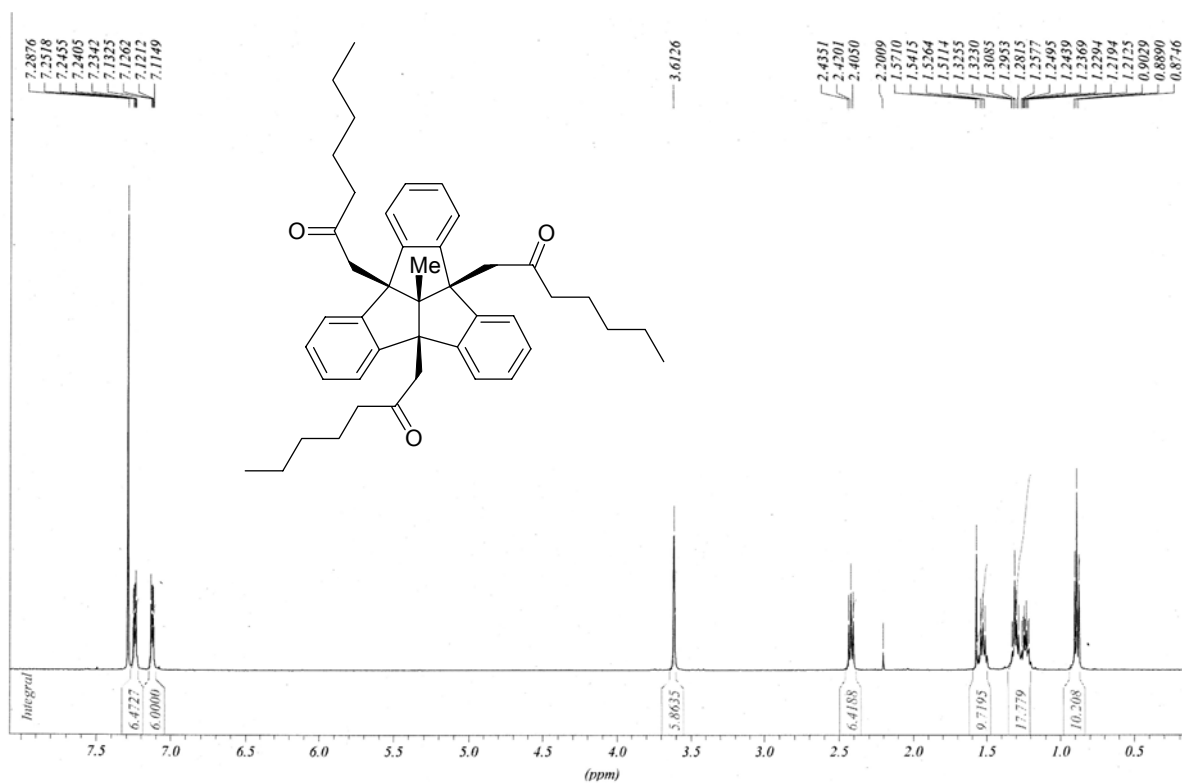
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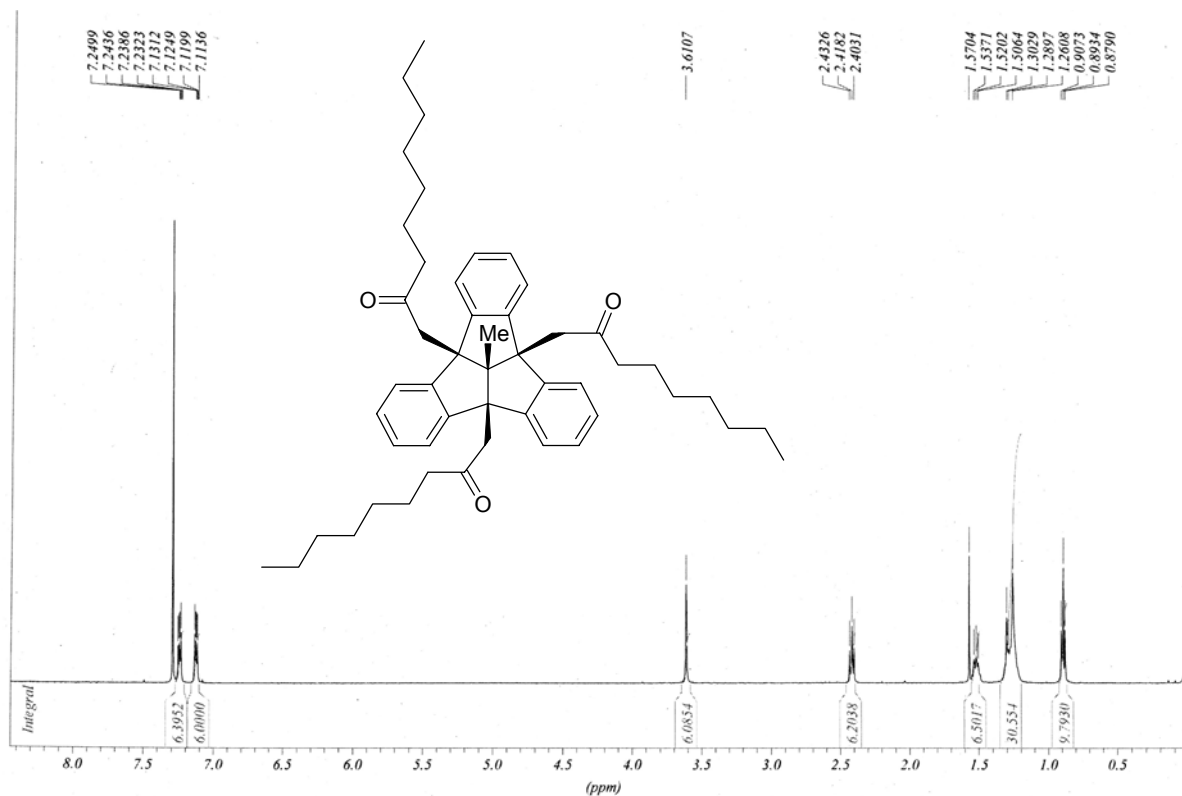
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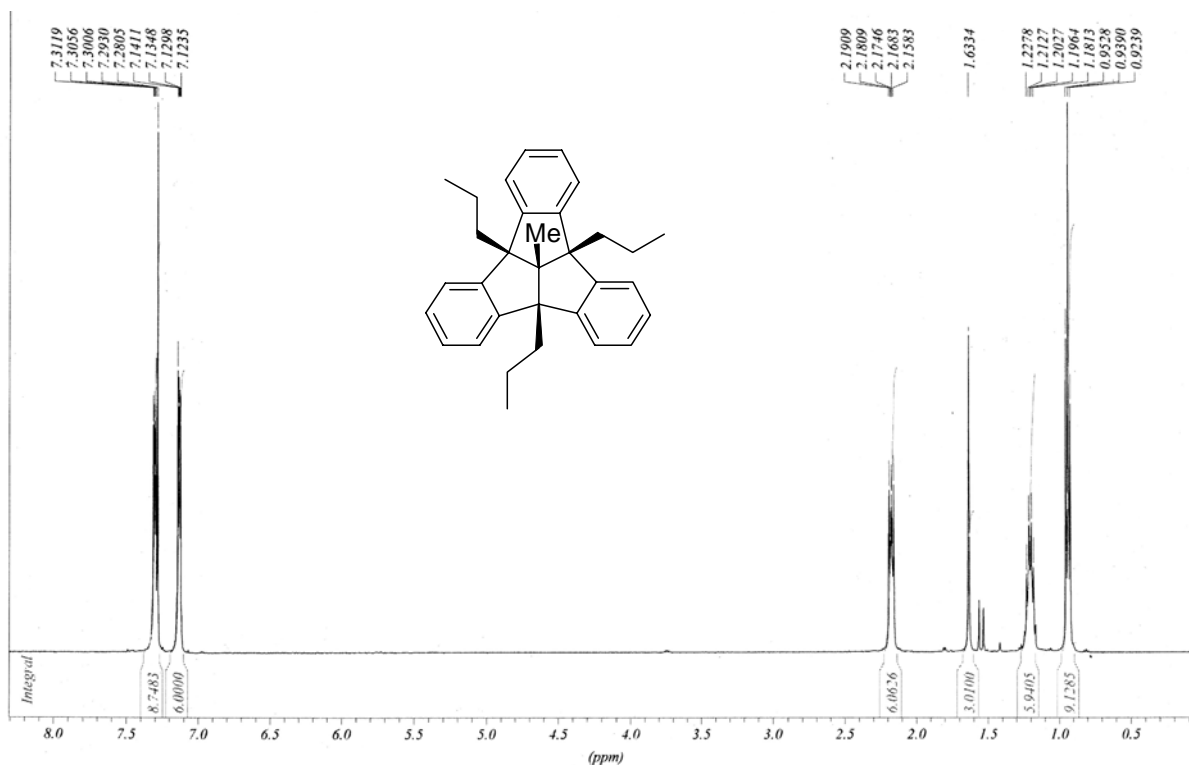
12d-Methyl-4b,8b,12b-tris(3,3-dimethyl-2-oxobutyl)-4b,8b,12b,12d-tetrahydrodibenzo[2,3:4,5]pentaleno[1,6-ab]indene (**10**) (500 MHz, CDCl₃)



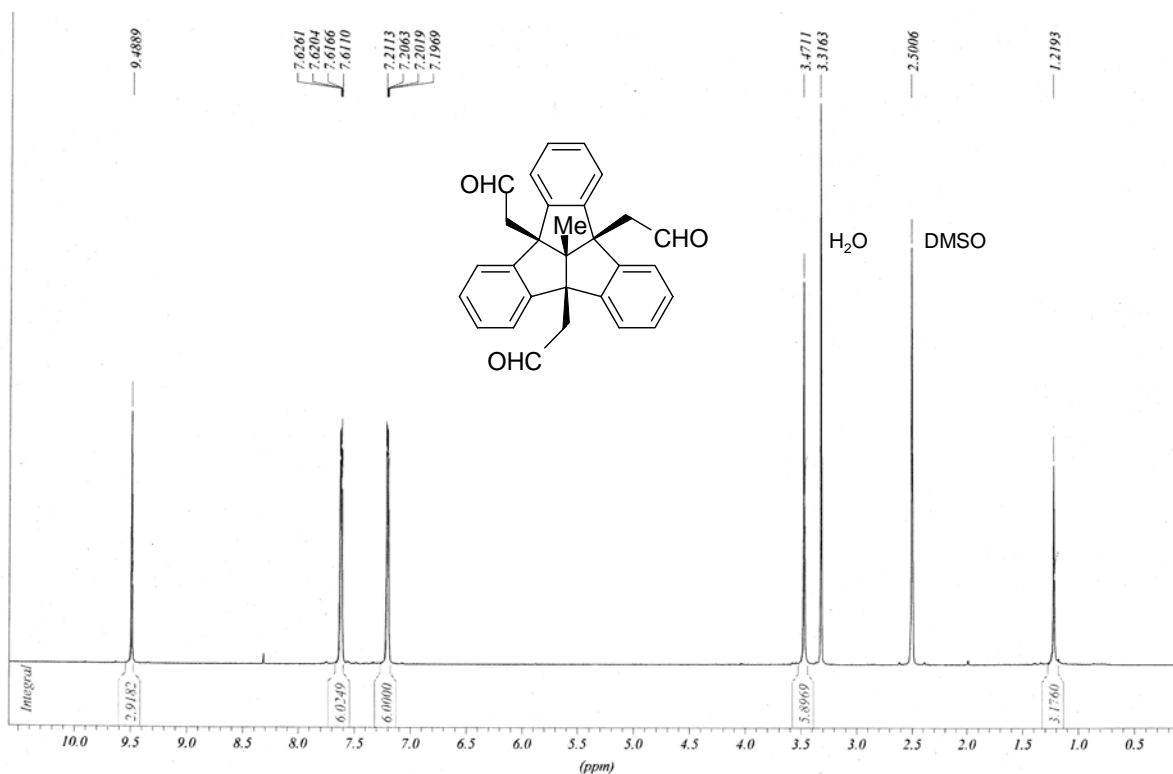
12d-Methyl-4b,8b,12b-tris(2-oxoheptyl)-4b,8b,12b,12d-tetrahydrodibenzo[2,3:4,5]pentaleno[1,6-*ab*]indene (**11**) (500 MHz, CDCl₃)



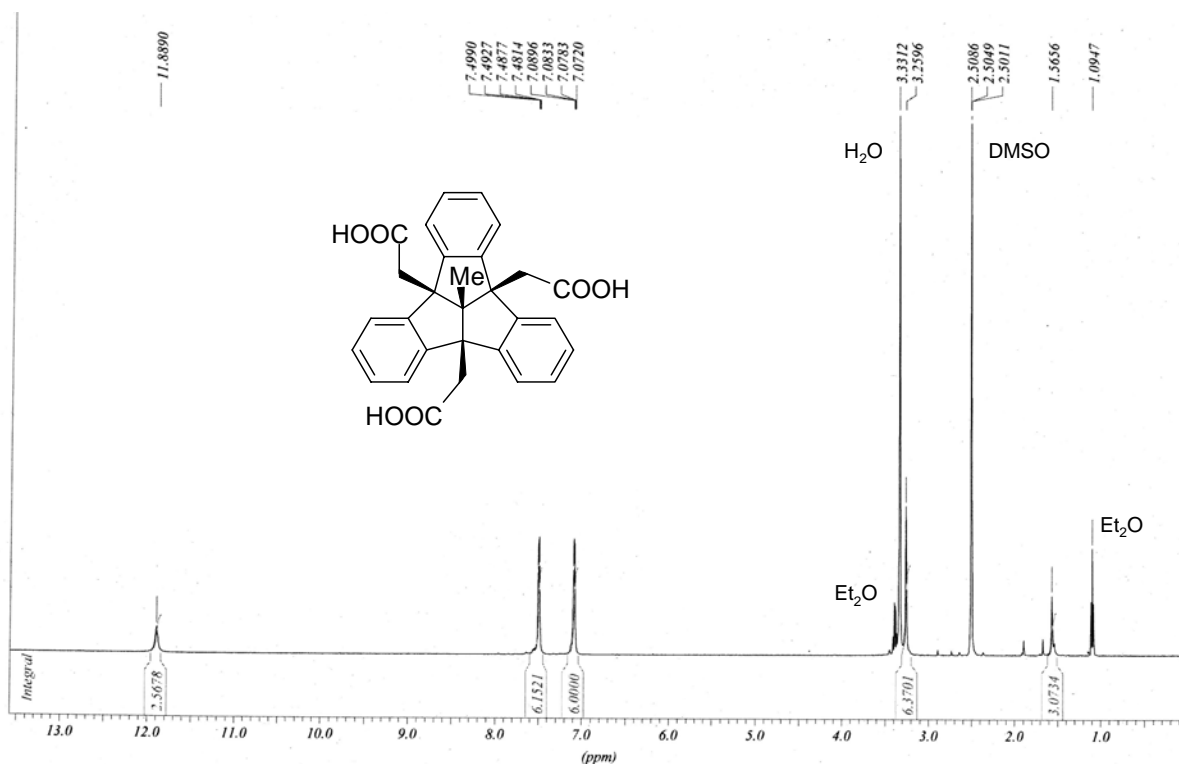
12d-Methyl-4b,8b,12b-tris(2-oxononyl)-4b,8b,12b,12d-tetrahydrodibenzo[2,3:4,5]pentaleno[1,6-*ab*]indene (**12**) (500 MHz, CDCl₃)



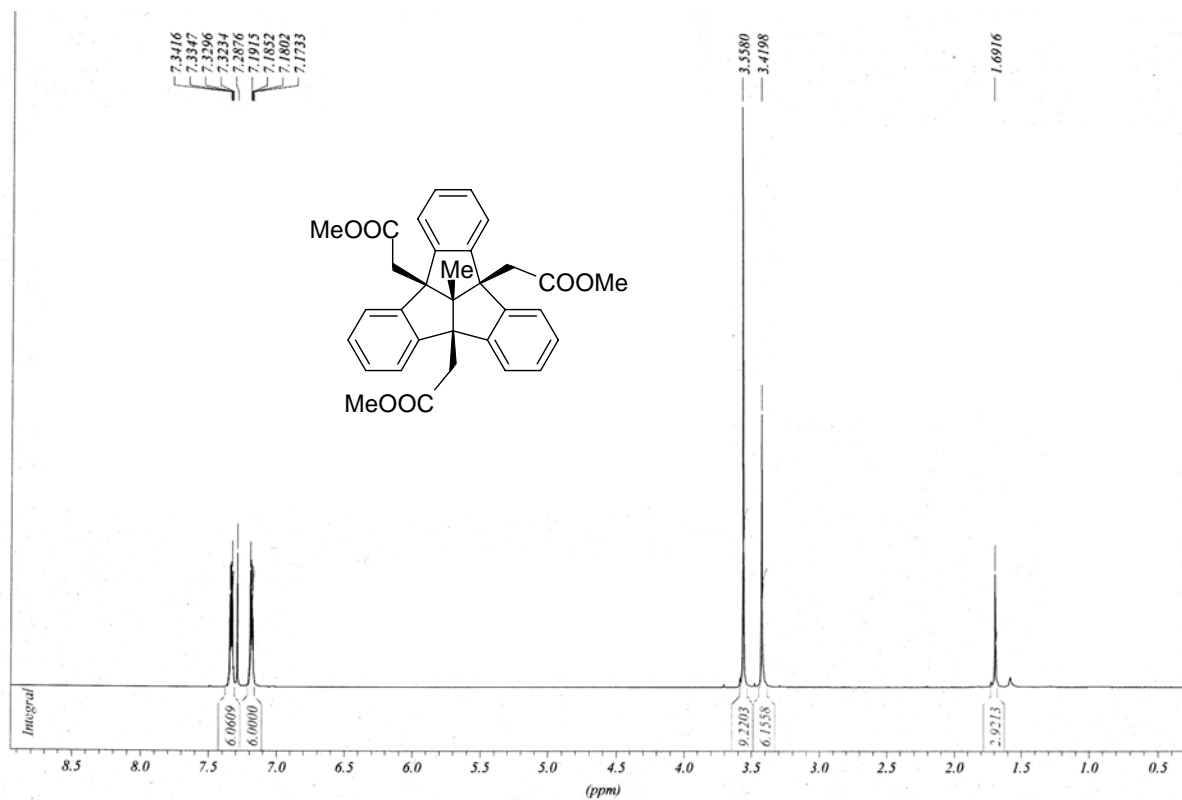
12d-Methyl-4b,8b,12b-tri-*n*-propyl-4b,8b,12b,12d-tetrahydro-dibenzo[2,3:4,5]pentaleno[1,6-*ab*]indene
 [12d-methyl-4b,8b,12b-tri(*n*-propyl)tribenzotriquinacene, **14**] (500 MHz, CDCl₃)



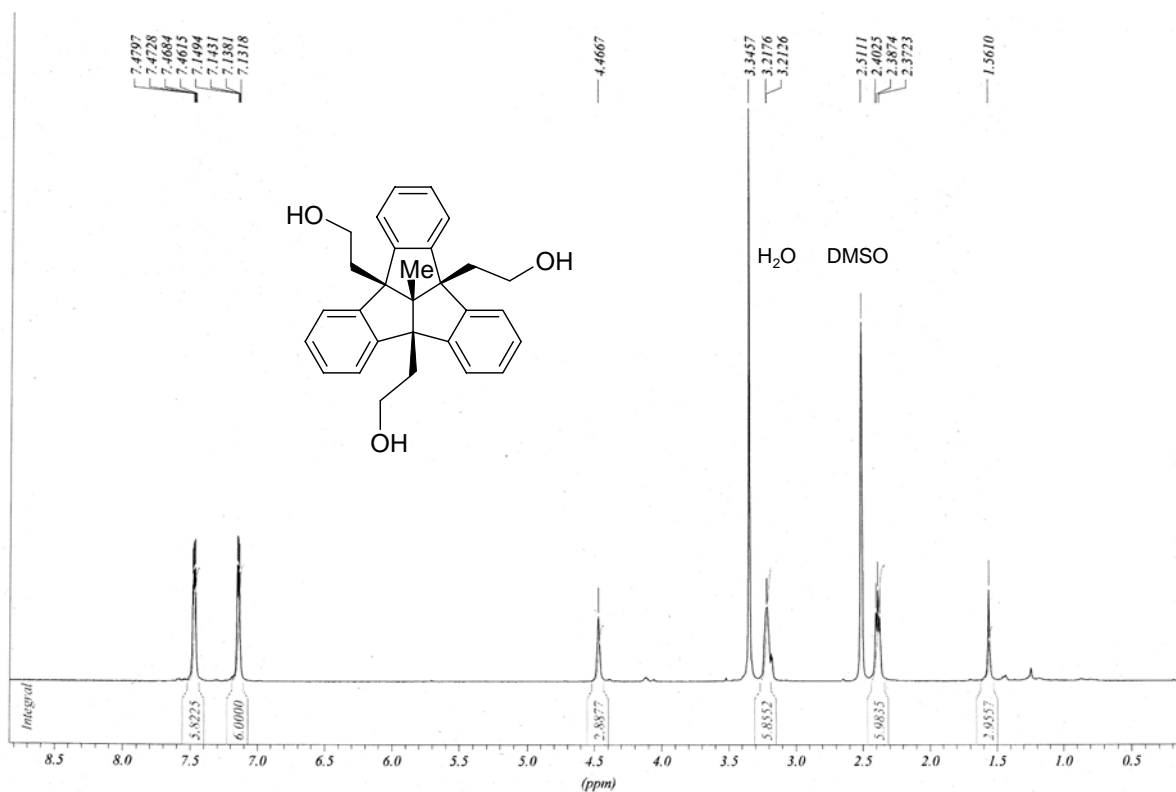
4b,8b,12b-Tris(formacymethyl)-12d-methyl-4b,8b,12b,12d-tetrahydro-dibenzo[2,3:4,5]pentaleno[1,6-*ab*]indene
 (12d-methyltribenzotriquinacene 4b,8b,12b-tris-acetaldehyde, **15**) (500 MHz, DMSO-d₆)



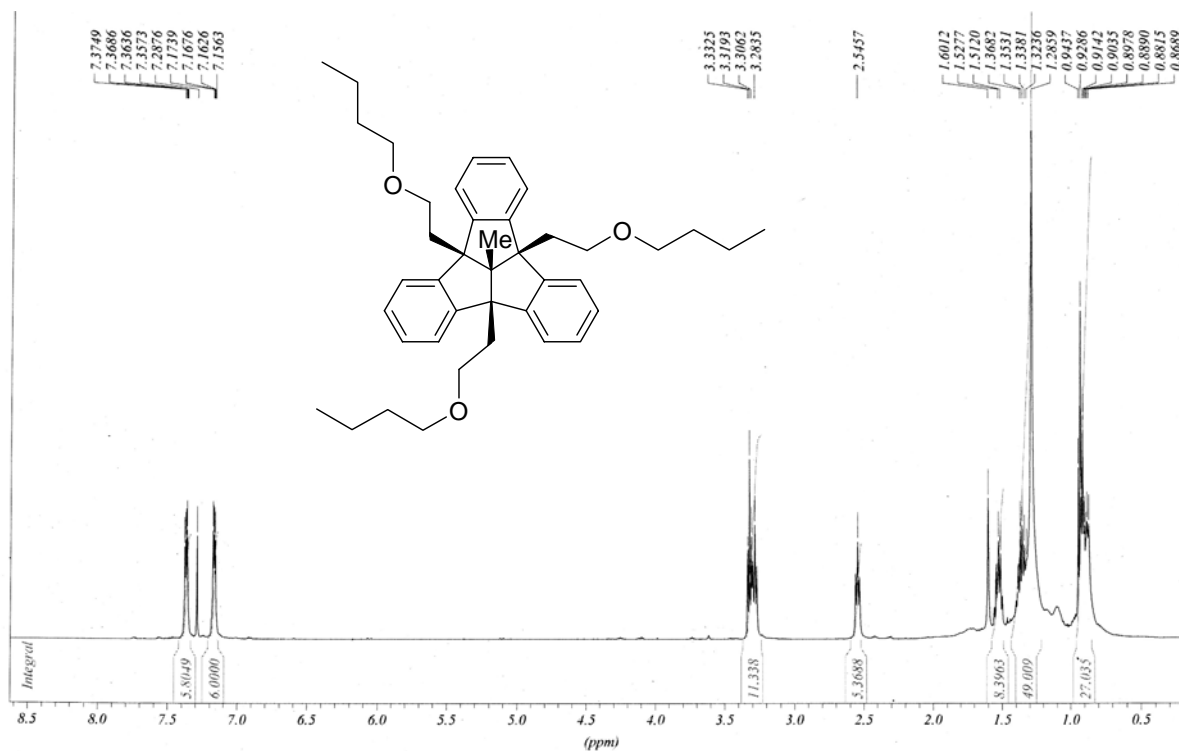
4b,8b,12b-Tris(carboxymethyl)-12d-methyl-4b,8b,12b,12d-tetrahydro-dibenzo[2,3:4,5]pentaleno[1,6-ab]indene
 [12d-methyltribenzotriquinacene 4b,8b,12b-tris(acetic acid), **16**] (500 MHz, DMSO-d₆)



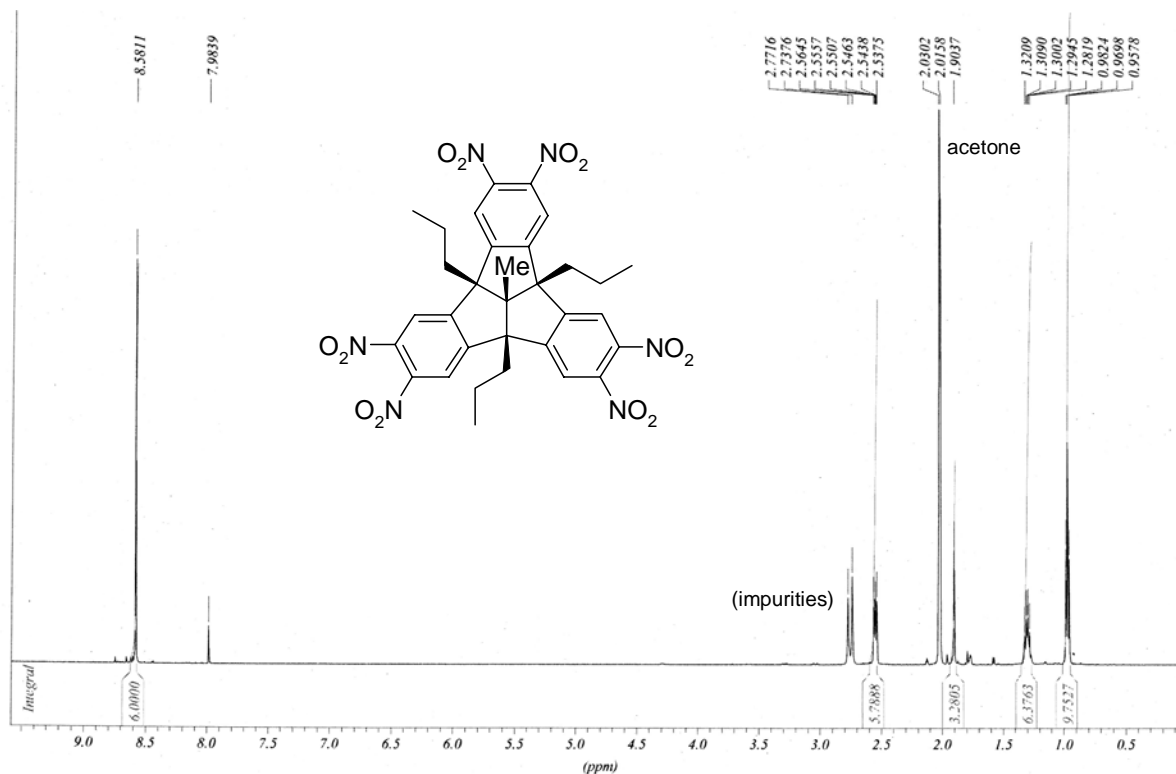
4b,8b,12b-Tris(methoxycarbonylmethyl)-12d-methyl-4b,8b,12b,12d-tetrahydro-dibenzo[2,3:4,5]pentaleno[1,6-ab]indene
 (trimethyl 12d-methyltribenzotriquinacene 4b,8b,12b-tris-acetate, **17**) (500 MHz, CDCl₃)



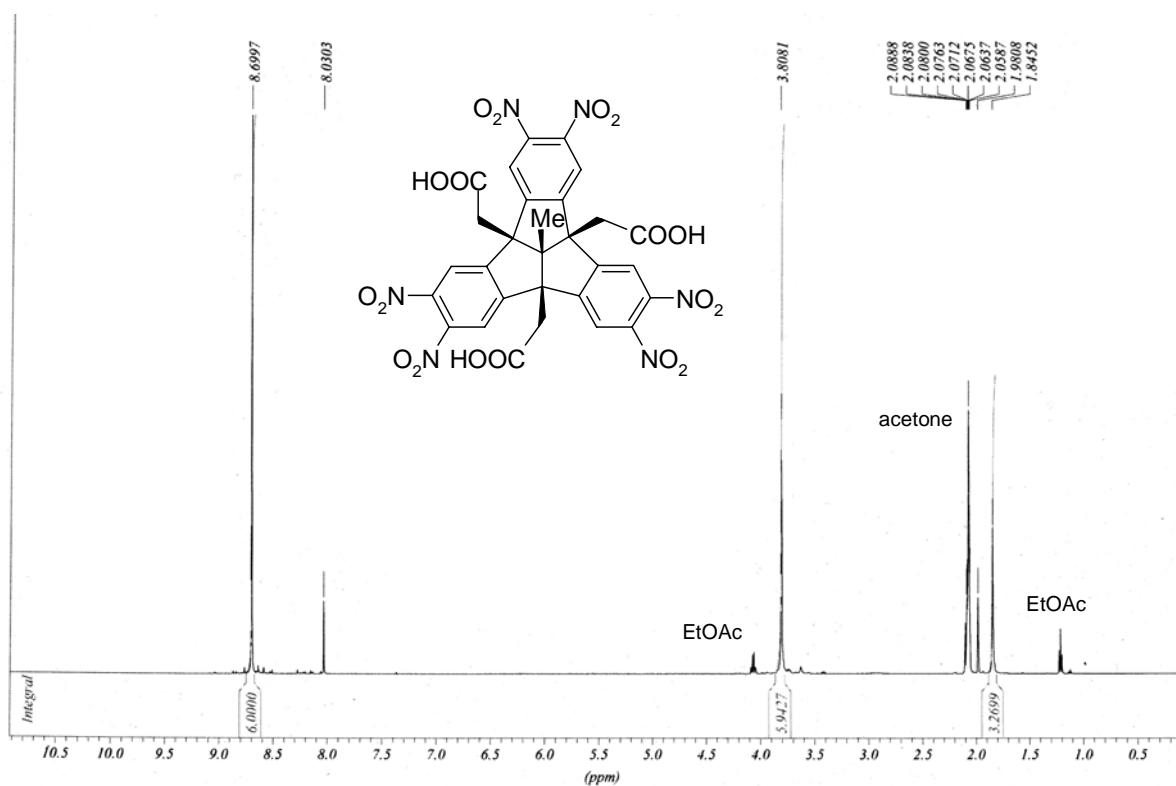
4b,8b,12b-Tris(2-hydroxyethyl)-12d-methyl-4b,8b,12b,12d-tetrahydro-dibenzo[2,3:4,5]pentaleno[1,6-ab]indene
 (12d-methyltribenzotriquinacene 4b,8b,12b-tris-ethanol, **18**) (500 MHz, DMSO- d_6)



4b,8b,12b-Tris(2-butoxyethyl)-12d-methyl-4b,8b,12b,12d-tetrahydro-dibenzo[2,3:4,5]pentaleno[1,6-ab]indene
 [12d-methyl-4b,8b,12b-tris(3-oxaheptyl)tribenzotriquinacene, **19**] (500 MHz, $CDCl_3$)



12d-Methyl-2,3,6,7,10,11-hexanitro-4b,8b,12b-tri(*n*-propyl)-4b,8b,12b,12d-tetrahydrodibenzo[2,3:4,5]pentaleno[1,6-*ab*]indene
 [12d-methyl-2,3,6,7,10,11-hexanitrotribenzotriquinacene, **20**]
 (500 MHz, acetone-*d*₆)



4b,8b,12b-Tris(carboxymethyl)-12d-methyl-2,3,6,7,10,11-hexanitro-4b,8b,12b,12d-tetrahydrodibenzo[2,3:4,5]pentaleno[1,6-*ab*]indene
 [12d-methyl-2,3,6,7,10,11-hexanitrotribenzotriquinacene 4b,8b,12b-tris(acetic acid), **21**]
 (500 MHz, acetone-*d*₆)