An Efficient Synthetic Approach to Substituted Trisphenols (Phloroglucide Analogs) Using Tungstosilicic Acid in Aqueous Media

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Copy of ¹H-NMR and ¹³C-NMR
Copy of $^1$H NMR and $^{13}$C NMR of synthetic compounds

1. 4-Chloro-2,6-bis-(5-chloro-2-hydroxy-benzyl)-phenol (3a)
2. 4-Chloro-2,6-bis-(2-hydroxy-5-methyl-benzyl)-phenol (3b)
3. 4-Chloro-2,6-bis-(5-fluoro-2-hydroxy-benzyl)-phenol (3c)
4. 4-Bromo-2,6-bis-(5-bromo-2-hydroxy-benzyl)-phenol (3d)
5. 2,6-Bis-(5-bromo-2-hydroxy-benzyl)-4-chloro-phenol (3e)
6. 4-Bromo-2,6-bis-(5-chloro-2-hydroxy-benzyl)-phenol (3f)
7. 4-Fluoro-2,6-bis-(5-fluoro-2-hydroxy-benzyl)-phenol (3g)
8. 2,6-Bis-(5-chloro-2-hydroxy-benzyl)-4-methyl-phenol (3h)
9. 2,2-(5-Chloro-2-hydroxy-1,3-phenylene)bis(methylene) dibenzene-1,4-diol (3i)
10. 4-Chloro-2,6-bis-(2-hydroxy-5-nitro-benzyl)-phenol (3j)
11. 3,3-(5-Chloro-2-hydroxy-1,3-phenylene)bis(methylene) dibiphenyl-4-ol (3k)
12. 4-Bromo-2,6-bis-(5-fluoro-2-hydroxy-benzyl)-phenol (3l)
13. 2,6-Bis-(2-hydroxy-5-methyl-benzyl)-4-methyl-phenol (3m)
14. 6,6’-[(5-Chloro-2-hydroxy-1,3-phenylene)bis(methylene)]bis(4-allyl-2-methoxyphenol) (3n)
15. 6,6’-[(5-Bromo-2-hydroxy-1,3-phenylene)bis(methylene)]bis(4-allyl-2-methoxyphenol) (3o)
16. 1,1'(((5-fluoro-2-hydroxy-1,3-phenylene)bis(methylene))bis(5-fluoro-2-hydroxy-3,1-phenylene))bis(ethan-1-one) (3p)
17. 1,1'-(((5-chloro-2-hydroxy-1,3-phenylene)bis(methylene))bis(5-fluoro-2-hydroxy-3,1-phenylene))bis(ethan-1-one) (3q)
18. 6,6’-[(5-Chloro-2-hydroxy-1,3-phenylene)bis(methylene)]bis(2-tert-butyl-4-methylphenol) (3r)
References


