



## 3-methyl-2-methylene-1-butanol

This compound, previously unreported, was prepared by the reaction of excess isopropyl magnesium bromide with the internal alkyn carbon of propargyl alcohol, followed by hydrolysis. (Reference 1).

The infrared spectrum (neat) showed bands at 3350 (s), 3100 (m), 2950 (s), 2860 (s), 1650 (m), 1470(m), 1440 (m), 1390(m), 1370 (m), 1310(w), 1230(w). (1160 (w), 1100 (m), 1030(s), 985(m), 950 (w), and 900 (s)  $\text{cm}^{-1}$ .

The pmr spectrum (60MHz),  $\text{CDCl}_3$ , showed a doublet at  $\delta$ 1.10 (6H, methyl), a heptuplet at 2.35 (1H, methine), a broad singlet at 3.10 (1H, hydroxyl), a singlet at 4.10 (2H, carbinol), a multiplet centered at 4.9 (1H, methylene), and a multiplet centered at 5.0 (1H, methylene).

- 1) "Addition of unsaturated propargyl, allyl and benzyl Grignard Reagents to acetylenic or allylic alcohols.", internet archive, 2012.

[http://www.ccl.net/cca/documents/MacMillan\\_Papers/Addition\\_of\\_propargyl\\_allyl\\_and\\_benzyl\\_Grignard\\_reagents\\_to\\_alpha\\_beta\\_unsaturated\\_alcohols.pdf](http://www.ccl.net/cca/documents/MacMillan_Papers/Addition_of_propargyl_allyl_and_benzyl_Grignard_reagents_to_alpha_beta_unsaturated_alcohols.pdf)