ALOCOHOL PHENOL & ETHER # PAGE: ALCONOL 03 - Preparation. - Preparation of alcohols from carbonyl cov compounds > aldehydes & ketome -> By Reduction H-C-H + 2[H] H-INIORPEORED CH3-OH BAING ORNABHG CH3-OH Formaldehyde OrNaCC2H3OH) methanol Ci Alcohold. $CH_{3} - C - H + 2[H] \xrightarrow{H_{2}/NiorPtorPt} CH_{3} - CH_{2} - OH.$ $Acetaldehyde or NaBH, or LiBIH4
CH_{3} - CH_{3} + 2[H] \xrightarrow{H_{2}/NiorPt} OH CH_{3} - CH_{3} - CH_{3}.$ $Acetone or NaBH, or LiBIH4, (ethor), H^{+}/H_{2}O).$ * Limitation of this method is the Os-alcohol : are not made from this processo Eree Rad Mechanismer Of N: cr Ptot Pa. 200°C. Pre R-C Paget/N: (H) R-CN-H T - R-C=H + H=H-Mechanism ij LiAIH, or NaBH, 17 Work as a doner of 100 H2 $L^{*}AIH_{\zeta} \rightarrow l^{\dagger} + AIH_{\zeta}^{=} NaBH_{\zeta} \rightarrow Na^{\dagger} + BH_{\zeta}^{=}$ VIVO YZOA 'H' atom on 'C' comes on LIBHA + LIAIHA Jun 15, 2022, 07:05 whom on 'e' comes from 13,0+/1120.

1) H2/Nior Pt or Pd Reduces C=C as well as C=O 2) But LAIH, or NaBH, reduces not C=C only C=O Similar Reduction can be obtained with Na/C2H0012 R-C-H + 2[H] Na/C2HSON , R-C-H NaBH CH3-C-H + 2[H] Na(C2HSOH) > CH3-C-H2 Anhydrous] Mechanism: $CH_{3}-C-H \xrightarrow{0} CH_{3}-c-H \xrightarrow{Na} Na^{+}+c$ $CH_{3}-c-H \xrightarrow{1} Na^{+}+c$ Otesa OtesaPage 12 of 12 Pr - BOUVERULT BLANC REACTION 2. Preparation of Alcohols from Carboxylic Acids & it's Derivatives. because R-C-ON LIDING > R-CIN2 + 140. Acid SENJ R-C-OR' LIAINA R-CH2 + R'ON Ester NaBHS VIVO YZOA - C - CT - LIAING OH Jun 15, 2022, 07:06 Na BHS S R- CH2 + HCI.