α - and β -Aminoalkyl(aryl)benzenes and their derivatives. A. OGATA. Tokyo Imp. Univ. Yakugaku-Zasshi (J. Pharm. Soc. Japan) No. 445, 193-216(1919).—For the study of the relation between chem. constitution of NH₂ compds. and their local narcotic actions, O. has prepd. (1) 5 β -aminoalkyl(aryl)benzenes; (2) 5 α -aminoalkyl(aryl)benzenes; (3) 4 aryl derivs. of (1) and (2), (4) 2 N-alkylaryl derivs. of (1), and (5) 3 mixed sec. alkylamines. Primary amines can be prepd. from the cyanides by reduction with Na. O. obtained Ph(CH₂)₂NH₂ (a) from PhCH₂CN (Ladenburg, Ber., 19, 782) (yield 68%), and isohexylamine from iso-AmCN. However, PhCH₂CH-(NH₂)Me (b) can easily be prepd. by the action of 2 g. HCO₂NH₄ on 2 g. PhCH₂CO-Me at 180-200°. Similarly were prepd. p-aminoisohexylbenzene (c), PhCH₂CH-(NH₂)CH₂CHMe₂ b₈ 121° (C₁₂H₁₉N.HCl, m. 230-1°), β-amino-octylbenzene (d), PhCH₂- $CH(NH_2).(CH_2)_5Me$, b_{75} 145° $(C_{14}H_{23}NHCl$, m. $134-6^{\circ}$), $PhCH_2CH(NH_2)Ph$ (e) (Leuckart & Jaussen., Ber., 22, 1404), PhCH(NH2)Me (f) (yield, 65%; Wallach, Ann. 343, 60), α-aminoisohexyl benzene (g), PhCH(NH₂)(CH₂)₂CHMe₂, b₃ 146° (C₁₂H₁₉N.-HCl, m. 289°), and α-aminohexylbenzene (h), PhCH(NH₂)(CH₂)₅Me, B₁₅ 145°, C₁₃H₂₁-N.HCl, m. 185-6°; from PhCH2COCH2CHMe2, PhCH2CO(CH2)6Me,phCHCOPh, m. 250° (L. and J. gave 242-3°), PhCO(CH)2CHMe2 and PhCO(CH2)5Me, resp. PhCH-(NH₂)Ph (g) was also obtained by the interaction of Ph₂CO and NH₃, and C₁₂H₁₃NHCl, m. 287°. PhCH₂CH(NH₂)Ph (k) was prepd. by the reduction of PhCH(C = NOH)Ph. PhCH₂NHPh (1) b₂₉₈ 300° (C₁₂H₁₃NHCl, m. 197°), was prepd. more conveniently by the reduction with 6 g. Zn dust of 5.5 g. benzylidenephenylazoxime which was obtained by the condensation of equal parts of BzH and PhNO₂ and Zn-AcOH. Other sec. amines such as [Ph(CH₂)₂]₂NH (m); β-phenylisopropyl benzyl amine (n), C₁₆H₁₉N, b₂₄ 194° (C₁₆H₁₉N.HCl, m. 186.5°); Ph(CH₂)₂NH.CH₂Ph (o) and (C₅H₁₁)₂NH (p) (C₁₀H₂₃-N.HCl, m. 284°), have been obtained by the reduction of the condensation products of PhCH₂CH₂NH₂ and PhCH₂CHO, PhCH₂NH₂CH₂Me and BzH, and Ph(CH₂)₂NH₂ and BzH with Na, resp. α-Benzylisoamylamine (q), C₁₉H₂₅N, b₂₅ 202° (C₁₉H₂₅NHCl, m. 166°), isohexylisoamylamine (r), C11H25N, b758 208° (C11H25NHCl, m. 258-9°; C11H26N-SnCl₄, m. 198°) and heptylisoamylamine (s), C₁₂H₂₇N, b₇₆₁ 229° (C₁₂H₂₇N.HCl, m. 235°), were prepd. by the interaction of PhCH₂NHC₅H₁₁ and PhCH₂Cl, (Me)₂CH(CH₂)₃NH₂ and (Me)₂CH(CH₂)₂Br and Me(CH₂)₆NH₂ and (Me)₂CH(CH₂)₂Br. It was proven by the tongue-test that the hydrochlorides of the bases, d, e, f, n and r have a hypnotic action. S. Komatsu