Regioselective Ring-Opening of Amino Epoxides with Nitriles: An Easy Synthesis of (2*R*,3*S*)- and (2*S*,3*S*)-1,3-Diaminoalkan-2-ols with Differently Protected Amine Functions

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General	S2
¹³C-RMN of 3 and 4:	
(2 <i>S</i> ,3 <i>S</i>)- <i>N</i> -(3-Dibenzylamino-2-hydroxybutyl) acetamide (3a).....	S3
(2 <i>S</i> ,3 <i>S</i>)- <i>N</i> -(3-Dibenzylamino-2-hydroxybutyl) benzamide (3b).....	S3
(2 <i>S</i> ,3 <i>S</i>)- <i>N</i> -(3-Dibenzylamino-2-hydroxy-5-methylhexyl) acetamide (3c).....	S4
(2 <i>S</i> ,3 <i>S</i>)- <i>N</i> -(3-Dibenzylamino-2-hydroxy-5-methylhexyl) propionamide (3d).....	S4
(2 <i>S</i> ,3 <i>S</i>)- <i>N</i> -(3-(Dibenzylamino-2-hydroxy-4-phenylbutyl) isobutyramide (3e).....	S5
(2 <i>S</i> ,3 <i>S</i>)- <i>N</i> -(3-Dibenzylamino-2-hydroxy-4-phenylbutyl) benzamide (3f).....	S5
(2 <i>R</i> ,3 <i>S</i>)- <i>N</i> -(3-Dibenzylamino-2-hydroxybutyl) acetamide (4a).....	S6
(2 <i>R</i> ,3 <i>S</i>)- <i>N</i> -(3-Dibenzylamino-2-hydroxybutyl) benzamide (4b).....	S6
(2 <i>R</i> ,3 <i>S</i>)- <i>N</i> -(3-Dibenzylamino-2-hydroxy-5-methylhexyl) propionamide (4c).....	S7
(2 <i>R</i> ,3 <i>S</i>)- <i>N</i> -(3-Dibenzylamino-2-hydroxy-5-methylhexyl) isobutyramide (4d).....	S7
(2 <i>R</i> ,3 <i>S</i>)- <i>N</i> -(3-Dibenzylamino-2-hydroxy-4-phenylbutyl) isobutyramide (4e).....	S8
(2 <i>R</i> ,3 <i>S</i>)- <i>N</i> -(3-Dibenzylamino-2-hydroxy-4-phenylbutyl) benzamide (4f).....	S8

General: All reactions were carried out under an atmosphere of dry N₂ using oven-dried glassware and syringes. All reagents were purchased in the higher quality available and were used without further purification. BF₃·OEt₂ was distilled from CaH₂ and stored over activated 4Å molecular sieves. The solvents used in column chromatography were obtained from commercial suppliers and used without further distillation. TLC was performed on aluminium-backed plates coated with silica gel 60 with F₂₅₄ indicator (Scharlau). Flash column chromatography was carried out on silica gel 60, 230-240 mesh. ¹H NMR (200, 300, 400 MHz) and ¹³C NMR (50, 75, 100 MHz) spectra were measured at room temperature, with tetramethylsilane (δ = 0.0, ¹H NMR) or CDCl₃ (δ = 77.00, ¹³C NMR) as internal standard. Carbon multiplicities were assigned by DEPT techniques. Low-resolution electron impact mass spectra (EI-LRMS) were obtained at 70 eV, and the intensities are reported as a percentage relative to the base peak after the corresponding *m/z* value.