

Supporting Information

"Preparation and Decomposition of Potassium Alkalide-Lipophilic Crown Ether Complexes in Tetrahydrofuran"

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MS Data for Dicyclohexano-15-crown-5 (DCH15C5), *m/e* (relative intensity): 328 (2, M⁺), 187 (11), 143 (33), 141 (29), 126 (13), 99 (44), 89 (21), 81 (100), 72 (35), 69 (27), 56 (27), 55 (27), 45 (82), 42 (27), 41 (44).

MS Data for Dicyclohexano-16-crown-5 (DCH16C5), *m/e* (relative intensity): 342 (3, M⁺), 201 (5), 187 (11), 155 (12), 143 (21), 140 (15), 126 (12), 106 (15), 99 (54), 89 (35), 83 (35), 81 (100), 72 (32), 69 (32), 67 (30), 59 (30), 57 (35), 55 (56), 45 (92), 42 (43), 41 (75).

MS Data for *trans*-2-[[2-Methoxy)ethoxy]ethyly]-1-[(2-methoxy)ethoxy]cyclohexane (**4**), *m/e* (relative intensity): 277 (2, M⁺), 200 (2), 186 (5), 157 (16), 141 (44), 128 (8), 102 (20), 81 (20), 59 (36), 45 (100).

MS Data for *trans*-2-(10-Methoxy-1,4,7-trioxaanonyl)cyclohexyl Methyl Ether (**6**), *m/e* (relative intensity): 277 (2, M⁺), 173 (2), 165 (6), 156 (31), 147 (10), 112 (42), 83 (46), 81 (46), 59 (33), 45 (100).

MS Data for *trans*-1,2-Bis[[2-methoxy)ethoxy]ethoxy]cyclohexane (**7**), *m/e* (relative intensity): 321 (0.5, M⁺), 229 (1), 185 (8), 173 (8), 165 (18), 157 (24), 156 (24), 147 (20), 141 (20), 128 (7), 103 (18), 87 (8), 81 (32), 59 (100), 45 (80).

MS Data for *trans*-2-(12-Methoxy-1,4,7,10-tetraoxadodecyl)-1-cyclohexyl Methyl Ether (**8**), *m/e* (relative intensity): 321 (0.5, M⁺), 229 (2), 209 (10), 173 (5), 156 (18), 143 (3), 112 (28), 83 (23), 81 (38), 72 (23), 59 (60), 45 (100).