

(n-Hydroxyalkyl)-Trialkyl-Ammonium Bromide Training Set

Number	Cation Name	T _{m,exp} / °C	T _{m,pred} / °C with eqn. 3	T _{m,pred} / °C with eqn. 4
1	(2-hydroxyethyl)-dimethyl-pentyl-ammonium	50	117.7	131.5
2	dibutyl-hexadecyl-(2-hydroxyethyl)-ammonium	55	36.1	79.3
3	tributyl-(2-hydroxyethyl)-ammonium	58	49.9	3.0
4	ethyl-hexadecyl-(2-hydroxyethyl)-methyl-ammonium	64	173.6	31.7
5	didodecyl-(2-hydroxyethyl)-methyl-ammonium	65	116.7	115.9
6	diethyl-(2-hydroxyethyl)-tetradecyl-ammonium	65	109.1	109.1
7	decyl-(3-hydroxypropyl)-dimethyl-ammonium	70	110.5	107.5
8	decyl-diethyl-(2-hydroxyethyl)-ammonium	77	91.6	90.1
9	hexadecyl-(3-hydroxypropyl)-dimethyl-ammonium	85	145.5	122.3
10	(3-hydroxypropyl)-dimethyl-tetradecyl-ammonium	86	136.5	127.9
11	didodecyl-ethyl-(2-hydroxyethyl)-ammonium	100	69.3	94.1
12	(2-hydroxyethyl)-dimethyl-octyl-ammonium	115	128.1	138.7
13	(2-hydroxyethyl)-dimethyl-nonyl-ammonium	120	136.2	140.3
14	dodecyl-diethyl-(2-hydroxyethyl)-ammonium	120	100.7	128.5
15	diethyl-hexadecyl-(2-hydroxyethyl)-ammonium	130	116.1	168.7
16	(2-hydroxyethyl)-methyl-dioctadecyl-ammonium	130	106.1	141.2
17	diethyl-(2-hydroxyethyl)-octadecyl-ammonium	136	121.4	144.7
18	dihexadecyl-(2-hydroxyethyl)-methyl-ammonium	150	114.0	102.0
19	decyl-(2-hydroxyethyl)-dimethyl-ammonium	155	144.4	144.0
20	(2-hydroxyethyl)-isopropyl-methyl-propyl-ammonium	155	115.2	147.1
21	diethyl-(3-hydroxypropyl)-methyl-ammonium	155	167.9	167.3
22	triethyl-(3-hydroxypropyl)-ammonium	165	147.1	129.7
23	trimethyl-(3-hydroxypropyl)-ammonium	175	148.4	219.6
24	dodecyl-(2-hydroxyethyl)-dimethyl-ammonium	200	159.8	161.4
25	(2-hydroxyethyl)-dimethyl-tetradecyl-ammonium	200	172.9	165.4
26	(2-hydroxyethyl)-dimethyl-pentadecyl-ammonium	205	178.4	179.7
27	(2-hydroxyethyl)-dimethyl-octadecyl-ammonium	210	191.0	186.1
28	hexadecyl-(2-hydroxyethyl)-dimethyl-ammonium	225	183.2	180.9
29	(2-hydroxyethyl)-diisopropyl-methyl-ammonium	235	268.2	236.8
30	triethyl-(2-hydroxyethyl)-ammonium	255	258.0	191.6
31	ethyl-(2-hydroxyethyl)-isopropyl-methyl-ammonium	260	184.1	216.2
32	(2-hydroxyethyl)-isopropyl-dimethyl-ammonium	275	304.4	250.0
33	ethyl-(2-hydroxyethyl)-dimethyl-ammonium	285	262.0	278.3
34	(2-hydroxyethyl)-trimethyl-ammonium	300	265.2	321.8