Thermo SCIENTIFIC

Electrode Log # 41

Orion ORP Standard Values at Temperature for Orion Electrodes and Others

Orion 967901 (475 mL)
Orion 967961 (60 mL)

Orion ORP Standard - Values for Orion Electrodes		Orion 9180 9678 9778	Orion 9179	Orion 9180 9678 9778
Orion Fill Solution Used		900011	Gel	900001*
Temp, C	Eh (mV)	E (mV)	E (mV)	E (mV)
0	438	218	222	176
5	435	218	223	176
10	431	219	223	175
15	428	219	224	175
20	424	219	224	174
25	420	220	224	173
30	415	220	224	172
35	411	220	224	171
40	406	220	224	170
45	401	220	224	169
50	396	220	224	167

* Using 900001 fill solution for dilute samples (total ionic strength < 0.2M).

		Orion ORP Standard - Universal Values				
Electrode Reference		Ag/AgCl	Ag/AgCl	Ag/AgCl	Ag/AgCl	Calomel
Fill Solution Used		3M KCl	3.5M KCl	4M KCl	sat'd KCl	sat'd KCl
Temp, C	Eh (mV)	E (mV)	E (mV)	E (mV)	E (mV)	E (mV)
0	438			218		
5	435			218		
10	431	211	216	219	219	177
15	428	212	216	219	219	177
20	424	211	216	219	220	176
25	420	211	215	220	221	176
30	415	210	214	220	221	174
35	411	209	214	220	222	173
40	406	208	213	220	222	172
45	401			220		
50	396			220		

Ag/AgCl - silver/silver chloride

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Orion ORP Standard

Cat. No. 967901 or 967961

mV versus Temperature Tables for Orion Electrode Systems

	Orion Electrode Compared to Normal/Standard Hydrogen Electrode (NHE/SHE)	Orion Electrode with Cat. No. 900011 Filling Solution System	Orion Electrode with Cat. No. 900001 Filling Solution System
degrees C			
0	438	218	176
1	437	218	176
2	437	218	176
3	436	218	176
4	435	218	176
5	435	218	176
6	434	218	176
7	433	218	176
8	433	218	175
9	432	219	175
10	431	219	175
11	430	219	175
12	430	219	175
13	429	219	175
14	428	219	175
15	428	219	175
16	427	219	174
17	426	219	174
18	425	219	174
19	424	219	174
20	424	219	174
21	423	219	174
22	422	219	174
23	421	219	173
24	420	220	173
25	420	220	173
26	419	220	173
27	418	220	173
28	417	220	172
29	416	220	172
30	415	220	172
31	414	220	172
32	413	220	172
33	412	220	171
34	412	220	171
35	411	220	171
36	410	220	171
37	409	220	171
38	408	220	170