Product Information

95295 Hydrogen ionophore II
(ETH 1907;4-Nonadecylpyridine)
Selectophore®, function-tested

Electrochemical Transduction
Ion-selective Electrodes

Application 1 and Sensor Type
Assay of $H^+$ activity with solvent polymeric membrane electrode based on Hydrogen ionophore II. Applications evaluated for aqueous solutions only.

Recommended Membrane Composition

<table>
<thead>
<tr>
<th>%</th>
<th>component</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td>Hydrogen ionophore II (95295)</td>
</tr>
<tr>
<td>1.0</td>
<td>Potassium tetrakis(4-chlorophenyl)borate (60591)</td>
</tr>
<tr>
<td>68.0</td>
<td>2-Nitrophenyl octyl ether (73732)</td>
</tr>
<tr>
<td>30.0</td>
<td>Poly(vinyl chloride) high molecular weight (81392)</td>
</tr>
</tbody>
</table>

Recommended Cell Assembly
Reference || sample solution || liquid membrane | buffer pH 5.6 | AgCl, Ag

Electrode Characteristics and Function
Selectivity coefficients $\log K_{Pot}^{M}$ as obtained by the fixed interference method on pH-buffered solutions.

- $\log K_{Na,K}^{Pot}$ < -9.7
- $\log K_{Na,Na}^{Pot}$ -8.8
- Practical pH measuring range (pH-buffered solutions, ion background of 140 mM Na$^+$): 1.3-9.8

Slope of linear regression: 58.1±0.4 mV (pH 1.3-9.0)