표 ESStb-M6, 물과 증기의 정압비열 (kcal/kg-K), Cp

온도	압력 (kg/cm2 a)													
oC	**0.1**	**0.2**	**0.5**	**1**	**2**	**5**	**10**	**20**	**50**	**100**	**200**	**500**	**750**	**1000**
Sat. Liq	0.998	0.999	1.002	1.007	1.014	1.030	1.051	1.088	1.198	1.450	4.727			
Sat. Vap.	0.464	0.469	0.481	0.495	0.519	0.575	0.646	0.758	1.050	1.674	9.170			
0	1.008	1.008	1.008	1.008	1.008	1.007	1.007	1.006	1.002	0.997	0.987	0.961	0.946	0.934
10	1.002	1.002	1.002	1.002	1.002	1.002	1.001	1.000	0.998	0.994	0.986	0.966	0.953	0.943
20	1.000	1.000	1.000	1.000	0.999	0.999	0.999	0.998	0.996	0.993	0.986	0.969	0.958	0.949
25	0.999	0.999	0.999	0.999	0.999	0.999	0.998	0.998	0.996	0.992	0.986	0.971	0.960	0.951
30	0.998	0.998	0.998	0.998	0.998	0.998	0.998	0.997	0.995	0.992	0.987	0.972	0.961	0.952
40	0.998	0.998	0.998	0.998	0.998	0.998	0.998	0.997	0.995	0.992	0.987	0.973	0.963	0.955
50	0.460	0.998	0.998	0.998	0.998	0.998	0.998	0.997	0.996	0.993	0.988	0.975	0.965	0.957
60	0.457	0.469	0.999	0.999	0.999	0.999	0.999	0.998	0.997	0.994	0.989	0.976	0.967	0.959
70	0.455	0.463	1.000	1.000	1.000	1.000	1.000	0.999	0.998	0.995	0.991	0.978	0.969	0.961
80	0.455	0.461	1.002	1.002	1.002	1.002	1.002	1.001	1.000	0.997	0.992	0.980	0.970	0.962
90	0.455	0.460	0.475	1.004	1.004	1.004	1.004	1.003	1.002	0.999	0.995	0.982	0.972	0.964
100	0.455	0.459	0.471	0.494	1.007	1.007	1.007	1.006	1.005	1.002	0.997	0.984	0.974	0.966
110	0.456	0.459	0.469	0.486	1.010	1.010	1.010	1.009	1.008	1.005	1.000	0.986	0.976	0.967
120	0.456	0.459	0.467	0.482	0.518	1.014	1.014	1.013	1.011	1.009	1.003	0.989	0.978	0.969
130	0.457	0.459	0.466	0.478	0.506	1.018	1.018	1.018	1.016	1.013	1.007	0.992	0.981	0.971
140	0.458	0.460	0.465	0.476	0.498	1.024	1.023	1.023	1.021	1.017	1.011	0.995	0.983	0.973
150	0.459	0.460	0.465	0.474	0.493	1.029	1.029	1.028	1.026	1.023	1.016	0.998	0.986	0.976
160	0.460	0.461	0.465	0.473	0.489	0.551	1.036	1.035	1.032	1.029	1.021	1.002	0.989	0.978
170	0.461	0.462	0.466	0.472	0.486	0.535	1.043	1.043	1.040	1.035	1.027	1.007	0.993	0.981
180	0.462	0.463	0.466	0.472	0.483	0.525	0.640	1.051	1.048	1.043	1.034	1.012	0.996	0.984
190	0.463	0.464	0.467	0.472	0.482	0.517	0.600	1.061	1.058	1.052	1.042	1.017	1.001	0.987
200	0.464	0.465	0.467	0.472	0.481	0.511	0.577	1.073	1.069	1.062	1.051	1.023	1.005	0.991
220	0.467	0.467	0.469	0.473	0.480	0.503	0.550	0.696	1.096	1.088	1.073	1.038	1.016	0.999
240	0.469	0.470	0.471	0.474	0.480	0.498	0.533	0.628	1.134	1.122	1.101	1.056	1.030	1.010
260	0.472	0.473	0.474	0.476	0.480	0.495	0.522	0.592	1.189	1.170	1.140	1.079	1.046	1.022
280	0.475	0.475	0.476	0.478	0.482	0.493	0.515	0.568	0.853	1.241	1.194	1.108	1.066	1.036
300	0.478	0.478	0.479	0.481	0.484	0.493	0.511	0.552	0.748	1.359	1.273	1.145	1.090	1.053
320	0.481	0.481	0.482	0.483	0.486	0.494	0.508	0.542	0.687	1.319	1.402	1.192	1.118	1.073
340	0.484	0.484	0.485	0.486	0.488	0.495	0.507	0.534	0.647	1.023	1.668	1.252	1.151	1.093
360	0.487	0.487	0.488	0.489	0.490	0.496	0.507	0.529	0.619	0.877	2.897	1.337	1.190	1.116
380	0.490	0.490	0.491	0.491	0.493	0.498	0.507	0.526	0.599	0.789	2.253	1.460	1.241	1.146
400	0.493	0.493	0.494	0.494	0.496	0.500	0.508	0.525	0.585	0.732	1.460	1.645	1.299	1.175
420	0.496	0.496	0.497	0.497	0.499	0.503	0.509	0.524	0.575	0.692	1.160	1.927	1.371	1.209
440	0.499	0.499	0.500	0.500	0.502	0.505	0.511	0.524	0.568	0.663	0.997	2.259	1.454	1.247
460	0.503	0.503	0.503	0.503	0.505	0.508	0.513	0.524	0.562	0.642	0.895	2.327	1.537	1.287
480	0.506	0.506	0.506	0.507	0.508	0.510	0.515	0.525	0.559	0.626	0.826	2.050	1.597	1.321
500	0.509	0.509	0.509	0.510	0.511	0.513	0.518	0.527	0.556	0.614	0.777	1.725	1.611	1.346
520	0.512	0.512	0.513	0.513	0.514	0.516	0.520	0.528	0.555	0.605	0.740	1.460	1.572	1.355
540	0.516	0.516	0.516	0.516	0.517	0.519	0.523	0.530	0.554	0.598	0.712	1.273	1.493	1.346
560	0.519	0.519	0.519	0.520	0.520	0.522	0.526	0.532	0.554	0.593	0.691	1.139	1.391	1.322
580	0.522	0.522	0.523	0.523	0.523	0.525	0.528	0.534	0.554	0.589	0.674	1.041	1.290	1.284
600	0.526	0.526	0.526	0.526	0.527	0.528	0.531	0.537	0.554	0.586	0.661	0.968	1.199	1.239
620	0.529	0.529	0.529	0.530	0.530	0.532	0.534	0.539	0.555	0.584	0.650	0.912	1.117	1.188
640	0.532	0.533	0.533	0.533	0.533	0.535	0.537	0.542	0.557	0.583	0.642	0.868	1.049	1.129
660	0.536	0.536	0.536	0.536	0.537	0.538	0.540	0.545	0.558	0.582	0.635	0.833	0.993	1.080
680	0.539	0.539	0.539	0.540	0.540	0.541	0.543	0.547	0.560	0.581	0.630	0.804	0.946	1.037
700	0.543	0.543	0.543	0.543	0.543	0.544	0.546	0.550	0.562	0.582	0.625	0.780	0.907	0.996
720	0.546	0.546	0.546	0.546	0.547	0.548	0.549	0.553	0.563	0.582	0.622	0.760	0.873	0.958
740	0.549	0.549	0.549	0.550	0.550	0.551	0.553	0.556	0.566	0.583	0.619	0.744	0.846	0.924
760	0.553	0.553	0.553	0.553	0.553	0.554	0.556	0.559	0.568	0.583	0.617	0.730	0.823	0.895
780	0.556	0.556	0.556	0.556	0.557	0.557	0.559	0.562	0.570	0.585	0.615	0.718	0.804	0.870
800	0.559	0.559	0.560	0.560	0.560	0.561	0.562	0.565	0.572	0.586	0.614	0.709	0.788	0.850
	45.43	**59.64**	**80.83**	**99.06**	**119.60**	**151.10**	**179.04**	**211.40**	**262.73**	**309.57**	**364.12**			
	포화 온도 (oC)													

표 ESStb-M7, 물과 증기의 정적비열 (kcal/kg-K), Cv

온도	압력 (kg/cm2 a)													
oC	**0.1**	**0.2**	**0.5**	**1**	**2**	**5**	**10**	**20**	**50**	**100**	**200**	**500**	**750**	**1000**
Sat. Liq	0.967	0.950	0.923	0.901	0.877	0.841	0.812	0.782	0.745	0.727	0.809			
Sat. Vap.	0.349	0.353	0.361	0.371	0.385	0.420	0.460	0.514	0.616	0.739	0.992			
0	1.007	1.007	1.007	1.007	1.007	1.007	1.006	1.005	1.002	0.997	0.987	0.960	0.942	0.927
10	1.001	1.001	1.001	1.001	1.001	1.001	1.000	0.999	0.996	0.992	0.983	0.960	0.944	0.930
20	0.993	0.993	0.993	0.993	0.993	0.993	0.992	0.991	0.989	0.985	0.977	0.957	0.942	0.929
25	0.988	0.988	0.988	0.988	0.988	0.988	0.988	0.987	0.985	0.981	0.974	0.954	0.940	0.928
30	0.984	0.984	0.983	0.983	0.983	0.983	0.983	0.982	0.980	0.976	0.969	0.951	0.937	0.925
40	0.973	0.973	0.973	0.973	0.973	0.972	0.972	0.971	0.969	0.966	0.960	0.943	0.931	0.920
50	0.346	0.961	0.961	0.961	0.961	0.961	0.961	0.960	0.958	0.955	0.950	0.934	0.923	0.912
60	0.344	0.353	0.949	0.949	0.949	0.949	0.949	0.948	0.946	0.944	0.939	0.925	0.914	0.905
70	0.343	0.348	0.937	0.937	0.937	0.937	0.936	0.936	0.934	0.932	0.928	0.915	0.905	0.896
80	0.343	0.347	0.924	0.924	0.924	0.924	0.924	0.924	0.922	0.920	0.916	0.905	0.896	0.887
90	0.343	0.346	0.357	0.912	0.912	0.912	0.912	0.911	0.910	0.908	0.905	0.894	0.886	0.878
100	0.344	0.346	0.354	0.370	0.900	0.900	0.900	0.899	0.898	0.897	0.893	0.884	0.876	0.869
110	0.344	0.346	0.353	0.364	0.888	0.888	0.888	0.887	0.886	0.885	0.882	0.873	0.866	0.860
120	0.345	0.347	0.352	0.361	0.385	0.876	0.876	0.876	0.875	0.873	0.871	0.863	0.856	0.851
130	0.346	0.347	0.352	0.359	0.377	0.864	0.864	0.864	0.863	0.862	0.860	0.852	0.847	0.841
140	0.347	0.348	0.352	0.358	0.372	0.853	0.853	0.853	0.852	0.851	0.849	0.842	0.837	0.832
150	0.348	0.349	0.352	0.357	0.369	0.842	0.842	0.842	0.841	0.840	0.838	0.832	0.827	0.823
160	0.349	0.350	0.352	0.357	0.367	0.404	0.832	0.831	0.831	0.830	0.828	0.822	0.818	0.814
170	0.350	0.351	0.353	0.357	0.365	0.394	0.821	0.821	0.820	0.819	0.818	0.813	0.809	0.805
180	0.351	0.352	0.354	0.357	0.364	0.388	0.456	0.811	0.810	0.810	0.808	0.803	0.799	0.796
190	0.352	0.353	0.355	0.357	0.363	0.384	0.430	0.801	0.801	0.800	0.798	0.794	0.791	0.788
200	0.354	0.354	0.356	0.358	0.363	0.381	0.417	0.792	0.792	0.791	0.789	0.785	0.782	0.779
220	0.356	0.357	0.358	0.360	0.363	0.376	0.402	0.477	0.775	0.774	0.772	0.769	0.766	0.764
240	0.359	0.359	0.360	0.361	0.364	0.374	0.393	0.441	0.759	0.758	0.757	0.754	0.752	0.750
260	0.362	0.362	0.363	0.364	0.366	0.374	0.388	0.423	0.746	0.745	0.744	0.740	0.738	0.737
280	0.365	0.365	0.365	0.366	0.368	0.374	0.385	0.411	0.532	0.735	0.732	0.729	0.727	0.725
300	0.367	0.368	0.368	0.369	0.370	0.375	0.384	0.404	0.489	0.728	0.724	0.718	0.716	0.715
320	0.370	0.371	0.371	0.372	0.373	0.377	0.384	0.400	0.463	0.652	0.720	0.709	0.706	0.704
340	0.373	0.374	0.374	0.374	0.375	0.379	0.384	0.397	0.446	0.571	0.723	0.700	0.696	0.694
360	0.376	0.377	0.377	0.377	0.378	0.381	0.386	0.396	0.435	0.526	0.764	0.693	0.686	0.683
380	0.380	0.380	0.380	0.380	0.381	0.383	0.387	0.396	0.427	0.497	0.736	0.689	0.679	0.676
400	0.383	0.383	0.383	0.383	0.384	0.386	0.389	0.397	0.423	0.477	0.637	0.687	0.672	0.668
420	0.386	0.386	0.386	0.386	0.387	0.389	0.392	0.398	0.420	0.464	0.582	0.691	0.666	0.660
440	0.389	0.389	0.389	0.389	0.390	0.392	0.394	0.400	0.418	0.454	0.547	0.695	0.661	0.654
460	0.392	0.392	0.392	0.393	0.393	0.395	0.397	0.402	0.417	0.448	0.522	0.687	0.657	0.648
480	0.395	0.396	0.396	0.396	0.396	0.398	0.400	0.404	0.418	0.443	0.504	0.665	0.651	0.642
500	0.399	0.399	0.399	0.399	0.399	0.401	0.402	0.406	0.418	0.440	0.491	0.638	0.642	0.636
520	0.402	0.402	0.402	0.402	0.403	0.404	0.405	0.409	0.420	0.439	0.482	0.609	0.631	0.629
540	0.405	0.405	0.405	0.406	0.406	0.407	0.408	0.412	0.421	0.438	0.475	0.585	0.618	0.621
560	0.409	0.409	0.409	0.409	0.409	0.410	0.411	0.414	0.423	0.438	0.470	0.565	0.603	0.613
580	0.412	0.412	0.412	0.412	0.413	0.413	0.415	0.417	0.425	0.438	0.466	0.549	0.590	0.604
600	0.415	0.415	0.416	0.416	0.416	0.417	0.418	0.420	0.427	0.439	0.464	0.536	0.578	0.595
620	0.419	0.419	0.419	0.419	0.419	0.420	0.421	0.423	0.429	0.440	0.462	0.527	0.566	0.589
640	0.422	0.422	0.422	0.422	0.423	0.423	0.424	0.426	0.432	0.442	0.461	0.520	0.556	0.576
660	0.426	0.426	0.426	0.426	0.426	0.426	0.427	0.429	0.434	0.443	0.461	0.514	0.548	0.566
680	0.429	0.429	0.429	0.429	0.429	0.430	0.431	0.432	0.437	0.445	0.461	0.509	0.541	0.559
700	0.432	0.432	0.432	0.432	0.433	0.433	0.434	0.435	0.440	0.447	0.462	0.505	0.534	0.554
720	0.436	0.436	0.436	0.436	0.436	0.436	0.437	0.438	0.443	0.449	0.463	0.502	0.529	0.548
740	0.439	0.439	0.439	0.439	0.439	0.440	0.440	0.442	0.445	0.451	0.464	0.500	0.524	0.543
760	0.442	0.442	0.443	0.443	0.443	0.443	0.444	0.445	0.448	0.454	0.465	0.498	0.521	0.539
780	0.446	0.446	0.446	0.446	0.446	0.446	0.447	0.448	0.451	0.456	0.466	0.497	0.519	0.536
800	0.449	0.449	0.449	0.449	0.449	0.450	0.450	0.451	0.454	0.459	0.468	0.497	0.519	0.534
	45.43	**59.64**	**80.83**	**99.06**	**119.60**	**151.10**	**179.04**	**211.40**	**262.73**	**309.57**	**364.12**			
	포화 온도 (oC)													

Table ESStb-M8, 물과 증기의 비열비, Cp / Cv

온도	압력 (kg/cm2 a)													
oC	**0.1**	**0.2**	**0.5**	**1**	**2**	**5**	**10**	**20**	**50**	**100**	**200**	**500**	**750**	**1000**
Sat. Liq	1.033	1.052	1.085	1.117	1.157	1.225	1.295	1.391	1.609	1.994	5.843			
Sat. Vap.	1.327	1.328	1.332	1.337	1.346	1.369	1.405	1.475	1.705	2.266	9.240			
0	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.000	1.000	1.000	1.000	1.001	1.004	1.007
10	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.002	1.003	1.006	1.010	1.014
20	1.007	1.007	1.007	1.007	1.007	1.007	1.007	1.007	1.007	1.008	1.009	1.013	1.017	1.021
25	1.011	1.011	1.011	1.011	1.011	1.011	1.011	1.011	1.011	1.012	1.013	1.017	1.021	1.025
30	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.016	1.016	1.018	1.022	1.026	1.029
40	1.026	1.026	1.026	1.026	1.026	1.026	1.026	1.026	1.027	1.027	1.028	1.032	1.035	1.039
50	1.328	1.039	1.039	1.039	1.039	1.039	1.039	1.039	1.039	1.039	1.040	1.043	1.046	1.049
60	1.328	1.328	1.053	1.053	1.053	1.053	1.053	1.053	1.053	1.053	1.054	1.056	1.058	1.060
70	1.328	1.329	1.068	1.068	1.068	1.068	1.068	1.068	1.068	1.068	1.068	1.069	1.070	1.072
80	1.327	1.328	1.084	1.084	1.084	1.084	1.084	1.084	1.084	1.084	1.083	1.083	1.083	1.084
90	1.325	1.327	1.331	1.101	1.101	1.101	1.101	1.101	1.101	1.100	1.099	1.098	1.097	1.097
100	1.324	1.326	1.330	1.337	1.119	1.119	1.119	1.119	1.118	1.118	1.116	1.113	1.112	1.111
110	1.323	1.324	1.328	1.335	1.138	1.138	1.138	1.138	1.137	1.136	1.134	1.129	1.127	1.125
120	1.322	1.323	1.327	1.332	1.346	1.158	1.157	1.157	1.156	1.155	1.152	1.146	1.142	1.139
130	1.321	1.322	1.325	1.330	1.342	1.178	1.178	1.178	1.176	1.175	1.171	1.163	1.158	1.154
140	1.320	1.321	1.323	1.328	1.339	1.200	1.199	1.199	1.198	1.195	1.191	1.181	1.175	1.170
150	1.319	1.320	1.322	1.326	1.336	1.222	1.222	1.221	1.220	1.217	1.212	1.200	1.192	1.186
160	1.318	1.318	1.321	1.324	1.333	1.364	1.246	1.245	1.243	1.240	1.234	1.219	1.210	1.202
170	1.316	1.317	1.319	1.323	1.330	1.358	1.271	1.270	1.267	1.263	1.256	1.239	1.228	1.219
180	1.315	1.316	1.318	1.321	1.328	1.352	1.404	1.296	1.293	1.289	1.280	1.259	1.246	1.236
190	1.314	1.314	1.316	1.319	1.326	1.348	1.394	1.324	1.321	1.315	1.305	1.281	1.266	1.253
200	1.313	1.313	1.315	1.318	1.324	1.343	1.384	1.354	1.350	1.343	1.331	1.303	1.285	1.271
220	1.310	1.311	1.312	1.315	1.320	1.336	1.368	1.457	1.416	1.406	1.389	1.350	1.327	1.308
240	1.308	1.308	1.309	1.312	1.316	1.330	1.356	1.424	1.494	1.480	1.455	1.401	1.370	1.346
260	1.305	1.306	1.307	1.309	1.312	1.324	1.346	1.400	1.593	1.570	1.533	1.458	1.417	1.387
280	1.303	1.303	1.304	1.306	1.309	1.319	1.338	1.381	1.603	1.689	1.630	1.521	1.467	1.429
300	1.300	1.301	1.301	1.303	1.306	1.315	1.331	1.367	1.531	1.866	1.757	1.593	1.522	1.474
320	1.298	1.298	1.299	1.300	1.303	1.311	1.324	1.355	1.483	2.024	1.948	1.680	1.583	1.522
340	1.295	1.296	1.296	1.298	1.300	1.307	1.319	1.345	1.449	1.791	2.308	1.788	1.654	1.576
360	1.293	1.293	1.294	1.295	1.297	1.303	1.314	1.336	1.422	1.667	3.791	1.929	1.735	1.635
380	1.291	1.291	1.291	1.292	1.294	1.300	1.309	1.329	1.402	1.589	3.062	2.119	1.826	1.695
400	1.288	1.288	1.289	1.290	1.291	1.296	1.305	1.322	1.384	1.534	2.293	2.393	1.934	1.760
420	1.286	1.286	1.286	1.287	1.289	1.293	1.300	1.316	1.370	1.493	1.992	2.789	2.060	1.831
440	1.284	1.284	1.284	1.285	1.286	1.290	1.297	1.311	1.358	1.460	1.824	3.250	2.199	1.907
460	1.281	1.281	1.282	1.282	1.283	1.287	1.293	1.306	1.347	1.435	1.715	3.386	2.339	1.985
480	1.279	1.279	1.279	1.280	1.281	1.284	1.290	1.301	1.338	1.413	1.638	3.083	2.453	2.057
500	1.277	1.277	1.277	1.277	1.278	1.281	1.286	1.296	1.329	1.395	1.581	2.704	2.509	2.116
520	1.274	1.274	1.275	1.275	1.276	1.279	1.283	1.292	1.322	1.380	1.536	2.397	2.492	2.155
540	1.272	1.272	1.272	1.273	1.274	1.276	1.280	1.288	1.315	1.366	1.500	2.178	2.417	2.169
560	1.270	1.270	1.270	1.270	1.271	1.273	1.277	1.285	1.309	1.355	1.471	2.017	2.307	2.157
580	1.268	1.268	1.268	1.268	1.269	1.271	1.274	1.281	1.303	1.344	1.446	1.897	2.188	2.126
600	1.265	1.265	1.266	1.266	1.267	1.268	1.272	1.278	1.298	1.335	1.425	1.804	2.074	2.084
620	1.263	1.263	1.264	1.264	1.264	1.266	1.269	1.275	1.293	1.327	1.407	1.730	1.973	2.016
640	1.261	1.261	1.261	1.262	1.262	1.264	1.266	1.272	1.289	1.319	1.391	1.670	1.886	1.960
660	1.259	1.259	1.259	1.260	1.260	1.261	1.264	1.269	1.284	1.313	1.377	1.621	1.812	1.910
680	1.257	1.257	1.257	1.257	1.258	1.259	1.262	1.266	1.280	1.306	1.365	1.580	1.750	1.855
700	1.255	1.255	1.255	1.255	1.256	1.257	1.259	1.263	1.277	1.301	1.354	1.545	1.697	1.799
720	1.253	1.253	1.253	1.253	1.254	1.255	1.257	1.261	1.273	1.295	1.344	1.515	1.652	1.746
740	1.251	1.251	1.251	1.251	1.252	1.253	1.255	1.258	1.270	1.290	1.335	1.489	1.613	1.700
760	1.249	1.249	1.249	1.249	1.250	1.251	1.253	1.256	1.267	1.286	1.327	1.466	1.579	1.659
780	1.247	1.247	1.247	1.248	1.248	1.249	1.250	1.254	1.264	1.281	1.320	1.446	1.548	1.623
800	1.245	1.245	1.246	1.246	1.246	1.247	1.248	1.251	1.261	1.277	1.313	1.428	1.519	1.592
	45.43	**59.64**	**80.83**	**99.06**	**119.60**	**151.10**	**179.04**	**211.40**	**262.73**	**309.57**	**364.12**			
	포화 온도 (oC)													

표 ESStb-M9, 물과 증기에서의 음속 (m/s)

온도	압력 (kg/cm2 a)													
oC	**0.1**	**0.2**	**0.5**	**1**	**2**	**5**	**10**	**20**	**50**	**100**	**200**	**500**	**750**	**1000**
Sat. Liq	1539.5	1553.5	1556.7	1545.9	1521.6	1463.6	1394.0	1293.9	1093.8	856.0	440.5			
Sat. Vap.	440.3	449.3	461.9	471.8	481.6	493.6	500.7	504.6	498.6	473.6	390.3			
0	1402.3	1402.3	1402.4	1402.4	1402.6	1403.0	1403.8	1405.4	1410.0	1417.9	1433.9	1484.2	1528.0	1572.1
10	1447.4	1447.4	1447.5	1447.5	1447.7	1448.2	1448.9	1450.5	1455.2	1463.0	1479.0	1528.4	1570.8	1613.4
20	1483.3	1483.3	1483.3	1483.4	1483.6	1484.0	1484.8	1486.4	1491.0	1498.9	1514.7	1563.3	1604.7	1646.3
25	1498.0	1498.0	1498.1	1498.2	1498.3	1498.8	1499.6	1501.1	1505.8	1513.6	1529.5	1577.9	1619.0	1660.2
30	1510.8	1510.9	1510.9	1511.0	1511.1	1511.6	1512.4	1513.9	1518.6	1526.5	1542.3	1590.7	1631.6	1672.6
40	1531.2	1531.2	1531.2	1531.3	1531.5	1531.9	1532.7	1534.3	1539.1	1547.1	1563.1	1611.7	1652.6	1693.3
50	443.7	1545.2	1545.2	1545.3	1545.5	1546.0	1546.8	1548.4	1553.3	1561.5	1577.8	1627.1	1668.3	1709.1
60	450.8	449.5	1553.8	1553.9	1554.0	1554.5	1555.4	1557.1	1562.1	1570.5	1587.3	1637.7	1679.5	1720.6
70	457.5	456.7	1557.5	1557.6	1557.8	1558.3	1559.2	1560.9	1566.1	1574.8	1592.2	1643.9	1686.6	1728.1
80	464.1	463.5	1557.0	1557.1	1557.2	1557.8	1558.7	1560.5	1566.0	1575.0	1593.0	1646.4	1690.1	1732.2
90	470.6	470.0	468.3	1552.8	1553.0	1553.5	1554.5	1556.4	1562.1	1571.5	1590.2	1645.4	1690.2	1733.1
100	476.9	476.4	475.0	472.4	1545.3	1545.9	1546.9	1548.9	1554.9	1564.8	1584.3	1641.4	1687.5	1731.1
110	483.1	482.7	481.5	479.4	1534.5	1535.2	1536.2	1538.3	1544.6	1555.0	1575.4	1634.6	1682.1	1726.7
120	489.3	488.9	487.8	486.0	481.9	1521.7	1522.8	1525.0	1531.6	1542.5	1563.9	1625.4	1674.3	1720.0
130	495.3	495.0	494.0	492.4	488.9	1505.5	1506.7	1509.1	1516.1	1527.6	1549.9	1613.9	1664.5	1711.3
140	501.2	500.9	500.1	498.6	495.6	1487.0	1488.2	1490.7	1498.1	1510.2	1533.8	1600.4	1652.7	1700.7
150	507.1	506.8	506.1	504.8	502.1	1466.0	1467.4	1470.0	1477.9	1490.7	1515.5	1585.0	1639.1	1688.5
160	512.8	512.6	511.9	510.8	508.4	500.5	1444.2	1447.0	1455.4	1469.0	1495.2	1567.9	1623.9	1674.8
170	518.5	518.3	517.7	516.6	514.5	507.6	1418.8	1421.9	1430.8	1445.3	1473.0	1549.0	1607.1	1659.7
180	524.1	523.9	523.4	522.4	520.5	514.3	501.6	1394.5	1404.0	1419.5	1448.8	1528.6	1588.9	1643.4
190	529.7	529.5	529.0	528.1	526.3	520.7	510.2	1364.9	1375.1	1391.6	1422.8	1506.6	1569.4	1625.8
200	535.1	535.0	534.5	533.7	532.1	527.0	517.7	1333.0	1344.0	1361.6	1394.9	1483.1	1548.5	1607.0
220	545.9	545.7	545.3	544.6	543.3	539.1	531.5	513.4	1275.0	1295.4	1333.4	1431.7	1503.0	1566.2
240	556.3	556.2	555.9	555.3	554.1	550.6	544.3	530.1	1196.6	1220.2	1264.1	1374.8	1452.7	1521.3
260	566.6	566.5	566.2	565.7	564.7	561.6	556.3	544.6	1107.1	1135.2	1186.5	1312.4	1398.2	1472.8
280	576.6	576.5	576.2	575.8	574.9	572.3	567.7	557.9	520.5	1037.6	1099.8	1244.9	1339.9	1421.2
300	586.4	586.3	586.1	585.7	584.9	582.6	578.7	570.3	540.0	921.0	1001.5	1172.7	1278.6	1367.2
320	596.0	595.9	595.7	595.4	594.7	592.7	589.2	582.0	556.7	495.1	886.5	1096.2	1215.0	1311.8
340	605.4	605.3	605.1	604.8	604.3	602.5	599.4	593.1	571.7	524.5	745.7	1015.5	1150.0	1255.9
360	614.6	614.5	614.4	614.1	613.6	612.0	609.3	603.8	585.4	547.3	528.0	928.8	1083.9	1199.5
380	623.7	623.6	623.5	623.2	622.8	621.4	619.0	614.1	598.1	566.4	467.4	838.2	1014.9	1142.0
400	632.6	632.5	632.4	632.2	631.8	630.5	628.4	624.0	610.0	583.2	511.0	744.9	946.5	1084.0
420	641.3	641.3	641.2	641.0	640.6	639.5	637.6	633.7	621.3	598.3	541.3	654.4	880.0	1027.4
440	649.9	649.9	649.8	649.6	649.3	648.2	646.5	643.1	632.1	612.1	565.4	582.4	817.8	973.5
460	658.4	658.3	658.2	658.1	657.8	656.9	655.3	652.2	642.5	625.0	585.8	549.4	763.1	923.9
480	666.7	666.7	666.6	666.4	666.2	665.3	663.9	661.1	652.4	637.0	603.6	551.3	719.2	879.8
500	674.9	674.8	674.8	674.6	674.4	673.6	672.4	669.9	662.1	648.4	619.7	567.4	688.8	842.3
520	682.9	682.9	682.8	682.7	682.5	681.8	680.7	678.4	671.4	659.3	634.4	587.5	672.1	811.7
540	690.9	690.9	690.8	690.7	690.5	689.9	688.9	686.8	680.5	669.7	648.1	607.5	666.5	788.5
560	698.7	698.7	698.6	698.6	698.4	697.8	696.9	695.0	689.4	679.8	660.8	626.2	669.1	772.3
580	706.4	706.4	706.4	706.3	706.1	705.6	704.8	703.1	698.0	689.5	672.8	643.4	675.4	762.3
600	714.1	714.1	714.0	713.9	713.8	713.3	712.6	711.0	706.5	698.8	684.2	659.2	684.2	758.5
620	721.6	721.6	721.5	721.5	721.3	720.9	720.2	718.9	714.7	707.9	695.1	673.9	694.5	756.5
640	729.0	729.0	729.0	728.9	728.8	728.4	727.8	726.6	722.9	716.8	705.6	687.6	705.6	759.5
660	736.4	736.3	736.3	736.3	736.1	735.8	735.3	734.1	730.8	725.5	715.6	700.6	716.9	765.8
680	743.6	743.6	743.6	743.5	743.4	743.1	742.6	741.6	738.7	733.9	725.3	713.0	728.1	772.9
700	750.8	750.7	750.7	750.7	750.6	750.3	749.9	749.0	746.4	742.2	734.7	724.8	739.3	780.1
720	757.8	757.8	757.8	757.8	757.7	757.4	757.1	756.3	754.0	750.3	743.9	736.2	750.3	787.4
740	764.8	764.8	764.8	764.8	764.7	764.5	764.1	763.4	761.4	758.2	752.8	747.1	761.0	794.9
760	771.8	771.8	771.7	771.7	771.6	771.5	771.1	770.5	768.8	766.0	761.4	757.5	771.4	802.5
780	778.6	778.6	778.6	778.6	778.5	778.3	778.1	777.5	776.0	773.7	769.8	767.5	781.2	810.3
800	785.4	785.4	785.4	785.3	785.3	785.1	784.9	784.5	783.2	781.2	778.1	777.1	790.5	818.6
	45.43	**59.64**	**80.83**	**99.06**	**119.60**	**151.10**	**179.04**	**211.40**	**262.73**	**309.57**	**364.12**			
	포화 온도 (oC)													

표 ESStb-M10, 물과 증기의 절대 점도 (cP)

온도	압력 (kg/cm2 a)													
oC	**0.1**	**0.2**	**0.5**	**1**	**2**	**5**	**10**	**20**	**50**	**100**	**200**	**500**	**750**	**1000**
Sat. Liq	0.5913	0.4686	0.3504	0.2844	0.2329	0.1812	0.1512	0.1270	0.1006	0.0823	0.0575			
Sat. Vap.	0.0104	0.0108	0.0116	0.0122	0.0129	0.0140	0.0150	0.0161	0.0179	0.0201	0.0268			
0	1.7920	1.7919	1.7919	1.7918	1.7915	1.7909	1.7898	1.7876	1.7812	1.7710	1.7520	1.7060	1.6792	1.6616
10	1.3060	1.3060	1.3059	1.3059	1.3058	1.3056	1.3051	1.3042	1.3017	1.2976	1.2901	1.2727	1.2637	1.2594
20	1.0016	1.0016	1.0016	1.0016	1.0016	1.0015	1.0013	1.0010	1.0002	0.9988	0.9965	0.9920	0.9912	0.9929
25	0.8900	0.8900	0.8900	0.8900	0.8900	0.8900	0.8899	0.8898	0.8894	0.8888	0.8879	0.8872	0.8887	0.8920
30	0.7972	0.7972	0.7972	0.7972	0.7972	0.7972	0.7972	0.7972	0.7972	0.7971	0.7973	0.7991	0.8022	0.8067
40	0.6527	0.6527	0.6527	0.6527	0.6527	0.6528	0.6528	0.6530	0.6533	0.6540	0.6554	0.6604	0.6654	0.6713
50	0.0105	0.5465	0.5465	0.5465	0.5465	0.5466	0.5467	0.5469	0.5475	0.5485	0.5506	0.5571	0.5631	0.5695
60	0.0109	0.0109	0.4660	0.4660	0.4661	0.4661	0.4663	0.4665	0.4672	0.4684	0.4708	0.4782	0.4846	0.4912
70	0.0112	0.0112	0.4035	0.4036	0.4036	0.4037	0.4038	0.4040	0.4048	0.4061	0.4086	0.4164	0.4229	0.4296
80	0.0116	0.0116	0.3540	0.3541	0.3541	0.3542	0.3543	0.3546	0.3553	0.3567	0.3593	0.3671	0.3737	0.3803
90	0.0120	0.0119	0.0119	0.3142	0.3142	0.3143	0.3144	0.3147	0.3155	0.3168	0.3194	0.3273	0.3337	0.3402
100	0.0123	0.0123	0.0123	0.0122	0.2816	0.2817	0.2818	0.2821	0.2829	0.2842	0.2868	0.2945	0.3009	0.3072
110	0.0127	0.0127	0.0127	0.0126	0.2546	0.2547	0.2548	0.2551	0.2559	0.2572	0.2598	0.2674	0.2736	0.2797
120	0.0131	0.0131	0.0131	0.0130	0.0129	0.2321	0.2322	0.2325	0.2333	0.2346	0.2371	0.2446	0.2507	0.2566
130	0.0135	0.0135	0.0134	0.0134	0.0133	0.2130	0.2131	0.2134	0.2141	0.2154	0.2179	0.2252	0.2312	0.2370
140	0.0139	0.0138	0.0138	0.0138	0.0137	0.1967	0.1968	0.1971	0.1978	0.1991	0.2015	0.2087	0.2145	0.2202
150	0.0142	0.0142	0.0142	0.0142	0.0141	0.1826	0.1827	0.1830	0.1837	0.1850	0.1874	0.1945	0.2002	0.2057
160	0.0146	0.0146	0.0146	0.0146	0.0145	0.0144	0.1705	0.1708	0.1715	0.1727	0.1751	0.1821	0.1877	0.1931
170	0.0150	0.0150	0.0150	0.0150	0.0149	0.0148	0.1598	0.1601	0.1608	0.1620	0.1644	0.1713	0.1768	0.1821
180	0.0154	0.0154	0.0154	0.0154	0.0154	0.0152	0.0150	0.1506	0.1514	0.1526	0.1550	0.1618	0.1672	0.1724
190	0.0158	0.0158	0.0158	0.0158	0.0158	0.0156	0.0154	0.1422	0.1430	0.1442	0.1466	0.1533	0.1587	0.1638
200	0.0162	0.0162	0.0162	0.0162	0.0162	0.0161	0.0159	0.1347	0.1354	0.1367	0.1390	0.1458	0.1511	0.1561
220	0.0170	0.0170	0.0170	0.0170	0.0170	0.0169	0.0168	0.0165	0.1224	0.1237	0.1261	0.1329	0.1381	0.1431
240	0.0179	0.0179	0.0179	0.0178	0.0178	0.0177	0.0176	0.0174	0.1115	0.1128	0.1154	0.1223	0.1275	0.1324
260	0.0187	0.0187	0.0187	0.0187	0.0186	0.0186	0.0185	0.0183	0.1019	0.1033	0.1061	0.1133	0.1186	0.1235
280	0.0195	0.0195	0.0195	0.0195	0.0195	0.0194	0.0194	0.0192	0.0188	0.0947	0.0977	0.1054	0.1109	0.1159
300	0.0203	0.0203	0.0203	0.0203	0.0203	0.0203	0.0202	0.0201	0.0198	0.0864	0.0900	0.0984	0.1042	0.1092
320	0.0211	0.0211	0.0211	0.0211	0.0211	0.0211	0.0211	0.0210	0.0208	0.0207	0.0823	0.0920	0.0981	0.1033
340	0.0220	0.0220	0.0220	0.0220	0.0220	0.0219	0.0219	0.0218	0.0217	0.0217	0.0739	0.0859	0.0925	0.0980
360	0.0228	0.0228	0.0228	0.0228	0.0228	0.0228	0.0228	0.0227	0.0226	0.0227	0.0622	0.0799	0.0873	0.0931
380	0.0236	0.0236	0.0236	0.0236	0.0236	0.0236	0.0236	0.0236	0.0235	0.0236	0.0256	0.0739	0.0823	0.0885
400	0.0245	0.0245	0.0245	0.0245	0.0245	0.0244	0.0244	0.0244	0.0244	0.0245	0.0260	0.0676	0.0774	0.0842
420	0.0253	0.0253	0.0253	0.0253	0.0253	0.0253	0.0253	0.0253	0.0253	0.0255	0.0267	0.0607	0.0726	0.0800
440	0.0261	0.0261	0.0261	0.0261	0.0261	0.0261	0.0261	0.0261	0.0261	0.0263	0.0275	0.0535	0.0679	0.0760
460	0.0269	0.0269	0.0269	0.0269	0.0269	0.0269	0.0269	0.0269	0.0270	0.0272	0.0283	0.0470	0.0634	0.0722
480	0.0277	0.0277	0.0277	0.0277	0.0277	0.0278	0.0278	0.0278	0.0279	0.0281	0.0291	0.0427	0.0591	0.0686
500	0.0286	0.0286	0.0286	0.0286	0.0286	0.0286	0.0286	0.0286	0.0287	0.0290	0.0299	0.0403	0.0553	0.0652
520	0.0294	0.0294	0.0294	0.0294	0.0294	0.0294	0.0294	0.0294	0.0295	0.0298	0.0307	0.0392	0.0522	0.0621
540	0.0302	0.0302	0.0302	0.0302	0.0302	0.0302	0.0302	0.0302	0.0304	0.0306	0.0315	0.0387	0.0498	0.0595
560	0.0310	0.0310	0.0310	0.0310	0.0310	0.0310	0.0310	0.0311	0.0312	0.0315	0.0323	0.0386	0.0480	0.0572
580	0.0318	0.0318	0.0318	0.0318	0.0318	0.0318	0.0318	0.0319	0.0320	0.0323	0.0331	0.0387	0.0468	0.0553
600	0.0326	0.0326	0.0326	0.0326	0.0326	0.0326	0.0326	0.0327	0.0328	0.0331	0.0339	0.0389	0.0460	0.0538
620	0.0334	0.0334	0.0334	0.0334	0.0334	0.0334	0.0334	0.0335	0.0336	0.0339	0.0347	0.0393	0.0456	0.0526
640	0.0342	0.0342	0.0342	0.0342	0.0342	0.0342	0.0342	0.0343	0.0344	0.0347	0.0355	0.0397	0.0453	0.0517
660	0.0350	0.0350	0.0350	0.0350	0.0350	0.0350	0.0350	0.0351	0.0352	0.0355	0.0363	0.0402	0.0453	0.0511
680	0.0358	0.0358	0.0358	0.0358	0.0358	0.0358	0.0358	0.0359	0.0360	0.0363	0.0371	0.0408	0.0453	0.0506
700	0.0366	0.0366	0.0366	0.0366	0.0366	0.0366	0.0366	0.0367	0.0368	0.0371	0.0378	0.0413	0.0455	0.0503
720	0.0373	0.0373	0.0373	0.0373	0.0374	0.0374	0.0374	0.0374	0.0376	0.0379	0.0386	0.0419	0.0458	0.0502
740	0.0381	0.0381	0.0381	0.0381	0.0381	0.0381	0.0382	0.0382	0.0384	0.0386	0.0393	0.0425	0.0461	0.0501
760	0.0389	0.0389	0.0389	0.0389	0.0389	0.0389	0.0389	0.0390	0.0391	0.0394	0.0401	0.0431	0.0464	0.0502
780	0.0397	0.0397	0.0397	0.0397	0.0397	0.0397	0.0397	0.0398	0.0399	0.0402	0.0408	0.0437	0.0468	0.0503
800	0.0404	0.0404	0.0404	0.0404	0.0404	0.0405	0.0405	0.0405	0.0407	0.0409	0.0416	0.0443	0.0472	0.0505
	45.43	**59.64**	**80.83**	**99.06**	**119.60**	**151.10**	**179.04**	**211.40**	**262.73**	**309.57**	**364.12**			
	포화 온도 (oC)													

표 ESStb-M11, 물과 증기의 동 점도 (cSt)

온도	압력 (kg/cm2 a)													
oC	**0.1**	**0.2**	**0.5**	**1**	**2**	**5**	**10**	**20**	**50**	**100**	**200**	**500**	**750**	**1000**
Sat. Liq	0.5973	0.4765	0.3608	0.2965	0.2468	0.1978	0.1703	0.1492	0.1291	0.1189	0.1144			
Sat. Vap.	154.87	84.449	38.172	21.047	11.648	5.3443	2.9606	1.6298	0.7214	0.3715	0.1656			
0	1.7923	1.7923	1.7922	1.7920	1.7917	1.7908	1.7893	1.7862	1.7772	1.7626	1.7354	1.6670	1.6236	1.5908
10	1.3064	1.3064	1.3064	1.3063	1.3061	1.3057	1.3050	1.3035	1.2991	1.2920	1.2788	1.2454	1.2243	1.2087
20	1.0035	1.0035	1.0034	1.0034	1.0033	1.0031	1.0027	1.0020	0.9998	0.9962	0.9896	0.9731	0.9629	0.9557
25	0.8927	0.8927	0.8927	0.8927	0.8926	0.8924	0.8922	0.8917	0.8901	0.8876	0.8829	0.8715	0.8646	0.8601
30	0.8007	0.8007	0.8007	0.8007	0.8007	0.8006	0.8004	0.8000	0.7989	0.7972	0.7940	0.7862	0.7818	0.7792
40	0.6579	0.6579	0.6579	0.6578	0.6578	0.6578	0.6577	0.6575	0.6571	0.6563	0.6550	0.6522	0.6510	0.6509
50	159.52	0.5531	0.5531	0.5531	0.5531	0.5531	0.5531	0.5531	0.5530	0.5528	0.5526	0.5526	0.5533	0.5547
60	169.99	84.644	0.4740	0.4740	0.4740	0.4740	0.4740	0.4741	0.4742	0.4744	0.4748	0.4765	0.4784	0.4807
70	180.89	90.130	0.4127	0.4127	0.4127	0.4128	0.4128	0.4129	0.4131	0.4135	0.4144	0.4171	0.4197	0.4226
80	192.22	95.823	0.3643	0.3643	0.3643	0.3644	0.3644	0.3645	0.3649	0.3654	0.3665	0.3699	0.3729	0.3761
90	203.98	101.73	40.368	0.3255	0.3255	0.3255	0.3256	0.3257	0.3261	0.3267	0.3280	0.3318	0.3351	0.3384
100	216.17	107.84	42.840	21.167	0.2938	0.2939	0.2939	0.2941	0.2945	0.2952	0.2965	0.3006	0.3040	0.3075
110	228.78	114.16	45.392	22.463	0.2678	0.2678	0.2679	0.2680	0.2684	0.2691	0.2706	0.2748	0.2783	0.2818
120	241.82	120.70	48.026	23.797	11.676	0.2461	0.2461	0.2463	0.2467	0.2475	0.2489	0.2532	0.2568	0.2603
130	255.29	127.45	50.742	25.171	12.380	0.2278	0.2279	0.2280	0.2285	0.2292	0.2307	0.2351	0.2386	0.2421
140	269.18	134.40	53.540	26.583	13.101	0.2123	0.2124	0.2126	0.2130	0.2138	0.2153	0.2196	0.2232	0.2267
150	283.49	141.57	56.421	28.036	13.840	0.1991	0.1992	0.1994	0.1998	0.2006	0.2021	0.2064	0.2099	0.2134
160	298.23	148.95	59.385	29.528	14.597	5.6292	0.1879	0.1880	0.1885	0.1892	0.1907	0.1950	0.1985	0.2019
170	313.38	156.54	62.431	31.061	15.374	5.9541	0.1781	0.1782	0.1787	0.1794	0.1809	0.1852	0.1887	0.1920
180	328.96	164.33	65.560	32.634	16.170	6.2848	2.9780	0.1697	0.1701	0.1709	0.1724	0.1767	0.1801	0.1834
190	344.95	172.34	68.772	34.248	16.985	6.6220	3.1587	0.1622	0.1627	0.1635	0.1649	0.1692	0.1726	0.1758
200	361.37	180.55	72.065	35.902	17.820	6.9658	3.3408	0.1557	0.1562	0.1569	0.1584	0.1626	0.1660	0.1692
220	395.43	197.60	78.900	39.332	19.548	7.6745	3.7119	1.7199	0.1453	0.1461	0.1476	0.1518	0.1550	0.1582
240	431.15	215.47	86.061	42.924	21.355	8.4119	4.0942	1.9285	0.1368	0.1376	0.1391	0.1433	0.1465	0.1495
260	468.51	234.16	93.548	46.677	23.241	9.1787	4.4890	2.1394	0.1300	0.1308	0.1323	0.1366	0.1397	0.1427
280	507.49	253.66	101.36	50.590	25.207	9.9755	4.8969	2.3545	0.8150	0.1253	0.1269	0.1312	0.1344	0.1373
300	548.08	273.96	109.49	54.663	27.250	10.802	5.3186	2.5747	0.9192	0.1208	0.1226	0.1269	0.1301	0.1329
320	590.27	295.06	117.94	58.893	29.372	11.659	5.7544	2.8005	1.0222	0.4109	0.1191	0.1236	0.1267	0.1295
340	634.03	316.95	126.70	63.281	31.572	12.547	6.2045	3.0324	1.1252	0.4789	0.1163	0.1210	0.1240	0.1267
360	679.36	339.62	135.77	67.823	33.849	13.464	6.6689	3.2707	1.2292	0.5422	0.1145	0.1190	0.1220	0.1246
380	726.24	363.06	145.16	72.520	36.202	14.411	7.1477	3.5155	1.3346	0.6037	0.2217	0.1179	0.1206	0.1230
400	774.66	387.28	154.85	77.370	38.632	15.389	7.6410	3.7669	1.4417	0.6643	0.2680	0.1178	0.1197	0.1219
420	824.59	412.25	164.84	82.370	41.136	16.395	8.1486	4.0251	1.5507	0.7247	0.3083	0.1192	0.1196	0.1213
440	876.02	437.97	175.13	87.521	43.715	17.432	8.6706	4.2901	1.6618	0.7853	0.3460	0.1237	0.1203	0.1213
460	928.95	464.43	185.72	92.819	46.368	18.497	9.2069	4.5619	1.7751	0.8464	0.3823	0.1328	0.1221	0.1218
480	983.34	491.63	196.61	98.265	49.094	19.591	9.7573	4.8404	1.8907	0.9081	0.4180	0.1463	0.1253	0.1229
500	1039.2	519.56	207.78	103.86	51.892	20.714	10.322	5.1258	2.0087	0.9705	0.4533	0.1619	0.1300	0.1248
520	1096.5	548.21	219.24	109.59	54.762	21.866	10.900	5.4179	2.1291	1.0338	0.4885	0.1783	0.1363	0.1275
540	1155.2	577.57	230.99	115.47	57.703	23.045	11.493	5.7167	2.2518	1.0981	0.5237	0.1948	0.1439	0.1310
560	1215.3	607.64	243.02	121.48	60.714	24.253	12.099	6.0223	2.3771	1.1633	0.5591	0.2112	0.1527	0.1354
580	1276.9	638.40	255.33	127.64	63.795	25.488	12.719	6.3345	2.5048	1.2295	0.5947	0.2276	0.1622	0.1406
600	1339.8	669.86	267.92	133.93	66.944	26.750	13.352	6.6533	2.6349	1.2968	0.6306	0.2439	0.1722	0.1464
620	1404.0	702.00	280.77	140.37	70.162	28.040	13.999	6.9787	2.7675	1.3651	0.6669	0.2602	0.1826	0.1528
640	1469.7	734.82	293.90	146.93	73.447	29.356	14.659	7.3107	2.9026	1.4346	0.7035	0.2766	0.1932	0.1596
660	1536.6	768.30	307.30	153.63	76.799	30.699	15.332	7.6491	3.0401	1.5051	0.7405	0.2930	0.2040	0.1668
680	1604.9	802.45	320.96	160.47	80.217	32.068	16.018	7.9939	3.1800	1.5768	0.7780	0.3094	0.2149	0.1744
700	1674.5	837.26	334.89	167.43	83.700	33.463	16.718	8.3451	3.3224	1.6496	0.8159	0.3259	0.2260	0.1821
720	1745.5	872.71	349.07	174.52	87.249	34.884	17.430	8.7027	3.4673	1.7235	0.8543	0.3426	0.2371	0.1901
740	1817.6	908.81	363.51	181.74	90.861	36.331	18.155	9.0665	3.6145	1.7985	0.8932	0.3593	0.2484	0.1982
760	1891.1	945.55	378.21	189.09	94.537	37.803	18.892	9.4366	3.7642	1.8747	0.9326	0.3762	0.2598	0.2065
780	1965.8	982.91	393.15	196.57	98.276	39.300	19.642	9.8128	3.9162	1.9520	0.9724	0.3932	0.2713	0.2149
800	2041.8	1020.9	408.35	204.17	102.08	40.822	20.404	10.195	4.0706	2.0304	1.0128	0.4104	0.2829	0.2234
	45.43	**59.64**	**80.83**	**99.06**	**119.60**	**151.10**	**179.04**	**211.40**	**262.73**	**309.57**	**364.12**			
	포화 온도 (oC)													

표 ESStb-M12, 물과 증기의 열 전도도 (kcal/hr-m-oC / 1000)

온도	압력 (kg/cm2 a)													
oC	**0.1**	**0.2**	**0.5**	**1**	**2**	**5**	**10**	**20**	**50**	**100**	**200**	**500**	**750**	**1000**
Sat. Liq	546.2	559.3	574.0	582.4	587.7	587.9	580.4	563.4	517.7	453.4	348.1			
Sat. Vap.	17.1	18.1	19.7	21.2	23.1	26.6	30.3	35.6	47.5	67.0	179.3			
0	483.2	483.2	483.2	483.3	483.3	483.5	483.7	484.2	485.7	488.2	493.0	507.1	518.3	528.9
10	500.4	500.4	500.4	500.4	500.5	500.6	500.8	501.3	502.7	505.1	509.7	523.1	533.7	543.8
20	515.5	515.5	515.5	515.5	515.5	515.7	515.9	516.4	517.7	520.0	524.4	537.3	547.6	557.4
25	522.3	522.3	522.3	522.4	522.4	522.5	522.8	523.2	524.6	526.8	531.2	543.9	554.0	563.7
30	528.8	528.8	528.8	528.8	528.9	529.0	529.2	529.6	531.0	533.2	537.5	550.1	560.1	569.7
40	540.5	540.5	540.5	540.5	540.6	540.7	540.9	541.3	542.6	544.8	549.1	561.5	571.3	580.8
50	17.4	550.7	550.7	550.7	550.8	550.9	551.1	551.6	552.9	555.0	559.3	571.6	581.4	590.7
60	18.1	18.1	559.6	559.6	559.6	559.8	560.0	560.4	561.7	563.9	568.1	580.5	590.2	599.6
70	18.8	18.8	567.1	567.2	567.2	567.3	567.6	568.0	569.3	571.5	575.8	588.2	598.0	607.3
80	19.4	19.5	573.5	573.5	573.6	573.7	573.9	574.4	575.7	577.9	582.3	594.8	604.7	614.1
90	20.1	20.2	20.3	578.7	578.7	578.9	579.1	579.6	580.9	583.2	587.6	600.4	610.4	619.9
100	20.9	20.9	21.0	21.3	582.8	583.0	583.2	583.7	585.1	587.4	591.9	604.9	615.1	624.8
110	21.6	21.6	21.7	21.9	585.8	586.0	586.2	586.7	588.1	590.5	595.2	608.5	618.9	628.7
120	22.3	22.3	22.4	22.6	23.2	587.9	588.2	588.7	590.2	592.6	597.5	611.1	621.8	631.9
130	23.1	23.1	23.1	23.3	23.7	588.9	589.2	589.7	591.3	593.8	598.8	612.9	623.8	634.1
140	23.8	23.8	23.9	24.0	24.4	589.0	589.2	589.8	591.4	594.0	599.2	613.8	625.0	635.6
150	24.6	24.6	24.7	24.8	25.1	588.0	588.3	588.9	590.6	593.3	598.7	613.8	625.4	636.3
160	25.4	25.4	25.4	25.5	25.8	27.0	586.5	587.1	588.8	591.7	597.3	613.1	625.1	636.3
170	26.2	26.2	26.2	26.3	26.5	27.5	583.7	584.3	586.2	589.2	595.1	611.5	624.0	635.6
180	27.0	27.0	27.0	27.1	27.3	28.1	30.3	580.7	582.7	585.9	592.1	609.2	622.2	634.2
190	27.8	27.8	27.8	27.9	28.0	28.7	30.6	576.2	578.2	581.6	588.2	606.2	619.7	632.1
200	28.6	28.6	28.6	28.7	28.8	29.4	30.9	570.7	572.9	576.5	583.5	602.4	616.5	629.4
220	30.3	30.3	30.3	30.3	30.5	30.9	32.0	35.5	559.6	563.7	571.6	592.8	608.3	622.3
240	32.0	32.0	32.0	32.0	32.2	32.5	33.4	35.8	542.4	547.3	556.4	580.4	597.5	612.8
260	33.7	33.7	33.7	33.8	33.9	34.2	34.9	36.7	521.0	526.8	537.7	565.3	584.5	601.3
280	35.5	35.5	35.5	35.6	35.7	35.9	36.5	38.0	45.8	501.8	515.1	547.5	569.1	587.8
300	37.3	37.3	37.4	37.4	37.5	37.7	38.2	39.5	45.3	471.0	488.1	526.9	551.6	572.4
320	39.2	39.2	39.2	39.3	39.3	39.6	40.0	41.1	45.8	63.0	455.3	503.3	531.9	555.2
340	41.1	41.1	41.1	41.1	41.2	41.4	41.9	42.8	46.7	59.2	414.2	476.6	509.9	536.3
360	43.0	43.0	43.0	43.1	43.1	43.4	43.7	44.6	48.0	57.7	359.0	446.2	485.9	515.7
380	45.0	45.0	45.0	45.0	45.1	45.3	45.7	46.5	49.4	56.9	106.0	411.9	459.6	493.7
400	47.0	47.0	47.0	47.0	47.1	47.3	47.7	48.4	51.1	57.5	86.7	374.0	431.3	470.3
420	49.0	49.0	49.0	49.1	49.1	49.3	49.7	50.4	52.8	58.5	80.0	333.1	401.4	445.8
440	51.1	51.1	51.1	51.1	51.2	51.4	51.7	52.4	54.7	59.7	77.1	289.4	370.3	420.4
460	53.2	53.2	53.2	53.2	53.3	53.5	53.8	54.4	56.6	61.2	75.9	242.3	339.0	394.5
480	55.3	55.3	55.3	55.4	55.4	55.6	55.9	56.5	58.6	62.8	75.6	200.5	308.6	368.8
500	57.5	57.5	57.5	57.5	57.6	57.7	58.0	58.6	60.6	64.6	76.0	171.6	279.9	343.9
520	59.7	59.7	59.7	59.7	59.8	59.9	60.2	60.8	62.7	66.4	76.8	153.2	253.6	320.5
540	61.9	61.9	61.9	61.9	62.0	62.1	62.4	63.0	64.8	68.4	78.0	141.4	230.6	298.8
560	64.1	64.1	64.1	64.2	64.2	64.4	64.6	65.2	66.9	70.3	79.3	133.6	211.6	279.2
580	66.4	66.4	66.4	66.4	66.5	66.6	66.9	67.4	69.1	72.4	80.8	128.4	196.4	261.7
600	68.7	68.7	68.7	68.7	68.7	68.9	69.1	69.7	71.3	74.5	82.4	125.0	184.6	246.4
620	71.0	71.0	71.0	71.0	71.1	71.2	71.4	72.0	73.6	76.6	84.1	122.7	175.6	233.2
640	73.3	73.3	73.3	73.3	73.4	73.5	73.8	74.3	75.8	78.7	85.9	121.3	168.6	222.1
660	75.7	75.7	75.7	75.7	75.7	75.9	76.1	76.6	78.1	80.9	87.8	120.6	163.3	212.8
680	78.0	78.0	78.0	78.1	78.1	78.2	78.5	78.9	80.4	83.2	89.7	120.3	159.3	205.0
700	80.4	80.4	80.4	80.5	80.5	80.6	80.9	81.3	82.8	85.4	91.7	120.4	156.3	198.6
720	82.8	82.8	82.8	82.9	82.9	83.0	83.3	83.7	85.1	87.7	93.8	120.8	154.0	193.4
740	85.2	85.2	85.3	85.3	85.3	85.4	85.7	86.1	87.5	90.0	95.9	121.5	152.4	189.2
760	87.7	87.7	87.7	87.7	87.8	87.9	88.1	88.5	89.9	92.3	98.0	122.3	151.3	185.7
780	90.1	90.1	90.1	90.2	90.2	90.3	90.5	91.0	92.3	94.7	100.2	123.4	150.6	183.0
800	92.6	92.6	92.6	92.6	92.7	92.8	93.0	93.4	94.7	97.0	102.4	124.6	150.3	180.8
	45.43	**59.64**	**80.83**	**99.06**	**119.60**	**151.10**	**179.04**	**211.40**	**262.73**	**309.57**	**364.12**			
	포화 온도 (oC)													

표 ESStb-M13, 물과 증기의 프란틀 수 (Prandtl Number)

온도	압력 (kg/cm2 a)													
oC	**0.1**	**0.2**	**0.5**	**1**	**2**	**5**	**10**	**20**	**50**	**100**	**200**	**500**	**750**	**1000**
Sat. Liq	3.89	3.01	2.20	1.77	1.45	1.14	0.99	0.88	0.84	0.95	2.81			
Sat. Vap.	1.01	1.01	1.02	1.02	1.04	1.09	1.15	1.23	1.43	1.81	4.94			
0	13.46	13.46	13.45	13.45	13.45	13.43	13.41	13.37	13.23	13.02	12.62	11.64	11.03	10.56
10	9.42	9.42	9.42	9.41	9.41	9.40	9.39	9.37	9.30	9.19	8.98	8.46	8.13	7.86
20	6.99	6.99	6.99	6.99	6.99	6.99	6.98	6.97	6.93	6.86	6.75	6.44	6.24	6.08
25	6.13	6.13	6.13	6.13	6.13	6.12	6.12	6.11	6.08	6.03	5.94	5.70	5.54	5.42
30	5.42	5.42	5.42	5.42	5.42	5.42	5.41	5.40	5.38	5.34	5.27	5.08	4.96	4.86
40	4.34	4.34	4.34	4.34	4.34	4.34	4.33	4.33	4.31	4.29	4.24	4.12	4.04	3.97
50	1.00	3.57	3.57	3.57	3.57	3.56	3.56	3.56	3.55	3.53	3.50	3.42	3.37	3.32
60	0.99	1.01	3.00	3.00	3.00	2.99	2.99	2.99	2.98	2.97	2.95	2.90	2.86	2.83
70	0.98	0.99	2.56	2.56	2.56	2.56	2.56	2.56	2.55	2.55	2.53	2.49	2.47	2.45
80	0.98	0.99	2.23	2.23	2.23	2.23	2.23	2.22	2.22	2.22	2.20	2.18	2.16	2.14
90	0.97	0.98	1.00	1.96	1.96	1.96	1.96	1.96	1.96	1.95	1.95	1.93	1.91	1.90
100	0.97	0.97	0.99	1.02	1.75	1.75	1.75	1.75	1.75	1.75	1.74	1.72	1.72	1.71
110	0.96	0.97	0.98	1.01	1.58	1.58	1.58	1.58	1.58	1.58	1.57	1.56	1.55	1.55
120	0.96	0.97	0.98	1.00	1.04	1.44	1.44	1.44	1.44	1.44	1.43	1.42	1.42	1.42
130	0.96	0.96	0.97	0.99	1.02	1.33	1.33	1.33	1.32	1.32	1.32	1.31	1.31	1.31
140	0.96	0.96	0.97	0.98	1.01	1.23	1.23	1.23	1.23	1.23	1.22	1.22	1.21	1.21
150	0.96	0.96	0.97	0.98	1.00	1.15	1.15	1.15	1.15	1.15	1.14	1.14	1.14	1.14
160	0.95	0.96	0.96	0.97	0.99	1.06	1.08	1.08	1.08	1.08	1.08	1.07	1.07	1.07
170	0.95	0.95	0.96	0.97	0.99	1.04	1.03	1.03	1.03	1.02	1.02	1.02	1.01	1.01
180	0.95	0.95	0.96	0.97	0.98	1.02	1.14	0.98	0.98	0.98	0.97	0.97	0.96	0.96
190	0.95	0.95	0.96	0.96	0.97	1.01	1.09	0.94	0.94	0.94	0.93	0.93	0.92	0.92
200	0.95	0.95	0.95	0.96	0.97	1.00	1.07	0.91	0.91	0.91	0.90	0.89	0.89	0.88
220	0.95	0.95	0.95	0.95	0.96	0.99	1.04	1.16	0.86	0.86	0.85	0.84	0.83	0.83
240	0.94	0.94	0.95	0.95	0.96	0.98	1.01	1.10	0.84	0.83	0.82	0.80	0.79	0.79
260	0.94	0.94	0.94	0.95	0.95	0.97	1.00	1.06	0.84	0.83	0.81	0.78	0.76	0.76
280	0.94	0.94	0.94	0.94	0.95	0.96	0.98	1.03	1.26	0.84	0.82	0.77	0.75	0.74
300	0.94	0.94	0.94	0.94	0.94	0.95	0.97	1.01	1.18	0.90	0.84	0.77	0.74	0.72
320	0.93	0.93	0.94	0.94	0.94	0.95	0.96	1.00	1.12	1.56	0.91	0.78	0.74	0.72
340	0.93	0.93	0.93	0.93	0.94	0.94	0.95	0.98	1.08	1.35	1.07	0.81	0.75	0.72
360	0.93	0.93	0.93	0.93	0.93	0.94	0.95	0.97	1.05	1.24	1.81	0.86	0.77	0.73
380	0.93	0.93	0.93	0.93	0.93	0.93	0.94	0.96	1.03	1.18	1.96	0.94	0.80	0.74
400	0.92	0.92	0.92	0.92	0.93	0.93	0.94	0.95	1.01	1.12	1.58	1.07	0.84	0.76
420	0.92	0.92	0.92	0.92	0.92	0.93	0.93	0.95	0.99	1.08	1.39	1.26	0.89	0.78
440	0.92	0.92	0.92	0.92	0.92	0.92	0.93	0.94	0.98	1.05	1.28	1.50	0.96	0.81
460	0.92	0.92	0.92	0.92	0.92	0.92	0.93	0.93	0.97	1.03	1.20	1.62	1.03	0.85
480	0.91	0.91	0.91	0.91	0.91	0.92	0.92	0.93	0.96	1.01	1.14	1.57	1.10	0.88
500	0.91	0.91	0.91	0.91	0.91	0.91	0.92	0.93	0.95	0.99	1.10	1.46	1.15	0.92
520	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.92	0.94	0.98	1.07	1.34	1.16	0.95
540	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.92	0.93	0.97	1.04	1.25	1.16	0.96
560	0.90	0.90	0.90	0.90	0.90	0.91	0.91	0.91	0.93	0.96	1.01	1.18	1.14	0.97
580	0.90	0.90	0.90	0.90	0.90	0.90	0.91	0.91	0.92	0.95	1.00	1.13	1.11	0.98
600	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.91	0.92	0.94	0.98	1.09	1.08	0.97
620	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.91	0.93	0.97	1.05	1.04	0.96
640	0.89	0.89	0.89	0.89	0.89	0.90	0.90	0.90	0.91	0.92	0.96	1.02	1.02	0.95
660	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.90	0.91	0.92	0.94	1.00	0.99	0.93
680	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.90	0.90	0.91	0.94	0.98	0.97	0.92
700	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.90	0.91	0.93	0.96	0.95	0.91
720	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.90	0.90	0.92	0.95	0.93	0.89
740	0.88	0.88	0.88	0.88	0.88	0.89	0.89	0.89	0.89	0.90	0.91	0.94	0.92	0.88
760	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.89	0.89	0.90	0.91	0.92	0.91	0.87
780	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.89	0.89	0.90	0.92	0.90	0.86
800	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.89	0.90	0.91	0.89	0.86
	45.43	**59.64**	**80.83**	**99.06**	**119.60**	**151.10**	**179.04**	**211.40**	**262.73**	**309.57**	**364.12**			
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