TABLE V. A-coefficient and B-coefficient of acetic acid composition of the alcoholic-PVOH system at different temperatures

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Temperature, K | Ion-ion interaction (A-coefficient), (mol־¹ dm³)½ | | | | |
| 0.10 % (w/v) PVOH | 0.35 % (w/v) PVOH | | 0.50 % (w/v) PVOH | |
| 5 % (v/v) methanol | | | | |
| 305 | 0.2042 | | 1.0888 | | 1.7782 |
| 308 | 0.1626 | | 0.8221 | | 1.4040 |
| 313 | 0.1393 | | 0.7957 | | 1.3735 |
| 318 | 0.1367 | | 0.7741 | | 1.3590 |
| 323 | 0.123 | | 0.7701 | | 1.3381 |
|  | 5 % (v/v) ethanol | | | | |
| 305 | 0.2134 | | 1.0915 | | 1.8107 |
| 308 | 0.2039 | | 1.0082 | | 1.6922 |
| 313 | 0.1555 | | 0.9214 | | 1.6350 |
| 318 | 0.1383 | | 0.8921 | | 1.4679 |
| 323 | 0.1358 | | 0.8295 | | 1.3407 |
|  | 5 % (v/v) 2-propanol | | | | |
| 305 | 0.3468 | | 1.1782 | | 2.1066 |
| 308 | 0.3302 | | 1.1627 | | 1.9176 |
| 313 | 0.3239 | | 1.1516 | | 1.8361 |
| 318 | 0.2814 | | 1.0539 | | 1.7534 |
| 323 | 0.2779 | | 0.9904 | | 1.7184 |
|  | 5 % (v/v) 1-butanol | | | | |
| 305 | 0.4215 | | 1.2276 | | 2.1769 |
| 308 | 0.4140 | | 1.2271 | | 2.0093 |
| 313 | 0.3915 | | 1.1209 | | 1.8998 |
| 318 | 0.3819 | | 1.0559 | | 1.8148 |
| 323 | 0.3426 | | 1.0069 | | 1.7656 |
| Ion-solvent interaction (B-coefficient), mol־¹ dm³ | | | | | |
|  | 5 % (v/v) methanol | | | | |
| 305 | -0.3348 | -1.2576 | | -2.2928 | |
| 308 | -0.2817 | -1.0481 | | -1.8102 | |
| 313 | -0.2386 | -1.0109 | | -1.7189 | |
| 318 | -0.1903 | -0.9743 | | -1.6684 | |
| 323 | -0.1476 | -0.8993 | | -1.6171 | |
|  | 5 % (v/v) ethanol | | | | |
| 305 | -0.3602 | -1.4060 | | -2.3868 | |
| 308 | -0.3018 | -1.3005 | | -2.1753 | |
| 313 | -0.2513 | -1.1766 | | -2.1552 | |
| 318 | -0.2262 | -1.1249 | | -1.8705 | |
| 323 | -0.1932 | -1.0560 | | -1.7019 | |
|  | 5 % (v/v) 2-propanol | | | | |
| 305 | -0.5873 | -1.5779 | | -2.8064 | |
| 308 | -0.5189 | -1.5358 | | -2.4956 | |
| 313 | -0.4073 | -1.4300 | | -2.2832 | |
| 318 | -0.4047 | -1.3610 | | -2.2367 | |
| 323 | -0.3941 | -1.2463 | | -2.2352 | |
|  | 5 % (v/v) 1-butanol | | | | |
| 305 | -0.6444 | -1.6705 | | -2.8148 | |
| 308 | -0.6100 | -1.5563 | | -2.5482 | |
| 313 | -0.5910 | -1.4552 | | -2.5339 | |
| 318 | -0.5320 | -1.3829 | | -2.4042 | |
| 323 | -0.4803 | -1.2770 | | -2.2416 | |