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

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| --- | --- |
| 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 |