

Diffusion coefficient of 2-(2,4-dihydroxyphenyl)-3,5,7-trihydroxy-4H-1- benzopyran-4-one in methanol at infinite dilution

3 Diffusion in Liquid Mixtures

3.1. Data

3.1.2. Diffusion in Binary Mixtures at Infinite Dilution

| | | | |
|---|--------------|--|----------------|
| C ₁₅ H ₁₀ O ₇ | (1) | 2-(2,4-dihydroxyphenyl)-3,5,7-trihydroxy-4H-1-benzopyran-4-one | 480-16-0 |
| C H ₄ O | (2) | methanol | 67-56-1 |
| Diffusion Coefficient at infinite dilution: $p = 101.325$ kPa; Method: TAYLOR | | | Ref.: [1999R2] |
| T [K] | Type | $D \cdot 10^9$ [m ² /s] | |
| 298.15 | $D_{1(2)}^0$ | 1.208 ± 0.030 | |
| Comment: solute concentration $5.0 \cdot 10^{-4}$ mol/dm ³ | | | |

Symbols and Abbreviations

| Short Form | Full Form |
|------------|-----------------------------|
| D | diffusion coefficient |
| p | pressure |
| T | temperature |
| TAYLOR | Taylor dispersion technique |

References

[1999R2] Rezende M. C., Moll, A. U., Gonzalez, L. C., Beezer, A., Mitchell, J. C.: J. Solution Chem. **28** (1999) 1107–1112.