

Diffusion coefficient of 4-hydroxy-benzoic acid in water

3 Diffusion in Liquid Mixtures

3.1. Data

3.1.1. Diffusion in Binary Mixtures

C ₇ H ₆ O ₃	(1)	4-hydroxy-benzoic acid	99-96-7
H ₂ O	(2)	water	7732-18-5
Mutual Diffusion Coefficient: $D_{12}(c_i)$; $T = 298.15 \pm 1.0$ K; Method: EA V			Ref.: [1977S5]
c_1 [mol/L]	p [kPa]	$D \cdot 10^9$ [m ² /s]	
0.0001	101.32	0.589 \pm 5%	

Symbols and Abbreviations

Short Form	Full Form
D	diffusion coefficient
p	pressure
T	temperature
c_i	molarity
EA V	electroanalytical methods:voltammetry

References

[1977S5] Sharma, L. R., Kalia, R. K.: J. Chem. Eng. Data **22** (1977) 39–41.