

Diffusion coefficient of 3-methyl-butan-1-ol in ethanol at infinite dilution

3 Diffusion in Liquid Mixtures

3.1. Data

3.1.2. Diffusion in Binary Mixtures at Infinite Dilution

C ₅ H ₁₂ O	(1)	3-methyl-butan-1-ol	123-51-3
C ₂ H ₆ O	(2)	ethanol	64-17-5
Diffusion Coefficient at infinite dilution: $p = 101.325$ kPa; Method: CORR			Ref.: [1955W1]
T [K]	Type	$D \cdot 10^9$ [m ² /s]	
293.15	$D_{1(2)}^0$	0.78	
Diffusion Coefficient at infinite dilution: $p = 101.325$ kPa; Method: DIA			Ref.: [1971L4]
T [K]	Type	$D \cdot 10^9$ [m ² /s]	
293.15	$D_{1(2)}^0$	$0.78 \pm 3\%$	

Symbols and Abbreviations

Short Form	Full Form
D	diffusion coefficient
p	pressure
T	temperature
DIA	diaphragm cell
CORR	correlation of experimental data

References

- [1955W1] Wilke, C. R., Chang, P.: *AIChE J.* **1** (1955) 264–270.
 [1971L4] Lussis, M. A., Ratcliff, G. A.: *AIChE J.* **17** (1971) 1492–1496.