

Diffusion coefficient of water in propionic acid ethyl ester at infinite dilution

3 Diffusion in Liquid Mixtures

3.1. Data

3.1.2. Diffusion in Binary Mixtures at Infinite Dilution

H ₂ O	(1)	water	7732-18-5
C ₅ H ₁₀ O ₂	(2)	propionic acid ethyl ester	105-37-3
Diffusion Coefficient at infinite dilution: $p = 101.325$ kPa; Method: DIA			Ref.: [1996E1]
T [K]	Type	$D \cdot 10^9$ [m ² /s]	
298.15 ± 0.02	$D^0_{1(2)}$	$3.725 \pm 1.0\%$	
Comment: tracer is HTO; average concentration: (0.005... 0.05)% by volume			

Symbols and Abbreviations

Short Form	Full Form
D	diffusion coefficient
p	pressure
T	temperature
DIA	diaphragm cell

References

[1996E1] Eastel, A. J.: J. Chem. Eng. Data **41** (1996) 741–744.