

Diffusion coefficient of 1,1,2,2-tetrabromo-ethane in butylbenzene at infinite dilution

3 Diffusion in Liquid Mixtures

3.1. Data

3.1.2. Diffusion in Binary Mixtures at Infinite Dilution

C ₂ H ₂ Br ₄	(1)	1,1,2,2-tetrabromo-ethane	79-27-6
C ₁₀ H ₁₄	(2)	butylbenzene	104-51-8
Diffusion Coefficient at infinite dilution: $p = 101.325$ kPa; Method: R-INT			Ref.: [1980A7]
T [K]	Type	$D \cdot 10^9$ [m ² /s]	
293.15 ± 0.1	$D_{1(2)}^0$	0.970 ± 1%	
298.15 ± 0.1	$D_{1(2)}^0$	1.03 ± 1%	
308.15 ± 0.1	$D_{1(2)}^0$	1.29 ± 1%	
318.15 ± 0.1	$D_{1(2)}^0$	1.59 ± 1%	

Comment: solute concentration is about 2 %wt

Symbols and Abbreviations

Short Form	Full Form
D	diffusion coefficient
p	pressure
T	temperature
INT	interferometry

References

[1980A7] Amu, T. C.: J. Chem. Soc., Faraday Trans. I **76** (1980) 1433–1441.