

# Diffusion coefficient of phenol in octan-1-ol

## 3 Diffusion in Liquid Mixtures

### 3.1. Data

#### 3.1.1. Diffusion in Binary Mixtures

$C_6 H_6 O$	(1)	phenol	108-95-2
$C_8 H_{18} O$	(2)	octan-1-ol	111-87-5
Mutual Diffusion Coefficient: $D_{12}(x_i)$ ; $T = 298.15 \pm 0.1$ K; Method: TAYLOR			Ref.: [1998G1]
$x_1$	$p$ [kPa]	$D \cdot 10^9$ [m <sup>2</sup> /s]	
$0.00036 \pm 0.0001$	101.32	$0.132 \pm 0.002$	

### Symbols and Abbreviations

Short Form	Full Form
$D$	diffusion coefficient
$p$	pressure
$T$	temperature
$x_i$	mole fraction
TAYLOR	Taylor dispersion technique

### References

[1998G1] Gabler, T., Paschke, A., Schüürmann, G.: J. Chem. Eng. Data **43** (1998) 413–416.