

Supplementary Material

Sorption of CO₂, CH₄ and their mixtures in Amorphous Poly(2,6-dimethyl-1,4-phenylene)oxide (PPO)

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Table S1. Mixed gas sorption experiments: solubility of CO₂ (component #1) in amorphous PPO.

T (°C)	P (Torr)	x ₁ (mol mol ⁻¹)	C ₁ (cm ³ _{STP} cm ⁻³ _{PPO})
35.00±0.02	214.3±1.1	0.360	0.849
35.00±0.02	426.8±2.1	0.368	1.611
35.00±0.02	528.8±2.6	0.376	2.087
35.00±0.02	745.8±3.7	0.377	3.014
35.00±0.02	999.1±5.0	0.379	4.020
35.00±0.02	450.2±2.2	0.502	2.615
35.00±0.02	557.4±2.8	0.495	3.078
35.00±0.02	705.2±3.5	0.510	4.036