

Table S3.

Selected textural and acid site concentrations data reported in the literature for MWW zeolites and their modified products.

MWW material	Treatment details	Si/Al	Surface area, m ² g ⁻¹		Pore volume, cm ³ g ⁻¹			Acid site concentration at 150 C°, mmol g ⁻¹			Ref.
			S _{BET}	S _{meso}	V _{total}	V _{micro}	V _{meso}	BAS	LAS	Large base	
MCM-22		50 (gel)	453	111				0.057	0.023	2.3*	1
MCM-56		12(gel)	400	156				0.064	0.077	3.0*	
ITQ-2			840	790				0.021	0.023	3.7* *relative	
MCM-22		30 (gel 50)	416								2
	Sonication time, minutes										
ITQ-2	15	10.8	832	785							
	90		840	796							
	120		985	960							
	600		1010	1010	(mesoporous MCM-41)						
MCM-22		19.8	442								
ITQ-2	15	9.5	452	91							
	90		560	98							
	120		580	121							
	600		630	280							
	1200		760	600							
MCM-22		12	378	294	0.16	0.10	0.06				3
ITQ-2		12	639	237	0.51	0.10	0.41		@100 °C		
MCM-22		19	469	352	0.28	0.16	0.12	0.264	0.160		
ITQ-2		19	704	153	0.63	0.07	0.56	0.118	0.158		
MCM-22		23	401	318	0.22	0.14	0.08				
ITQ-2		24	859	202	0.66	0.08	0.58				
MCM-22		29	340	256	0.21	0.12	0.09				

MWW material	Treatment details	Si/Al	Surface area, $\text{m}^2 \text{g}^{-1}$		Pore volume, $\text{cm}^3 \text{g}^{-1}$			Acid site concentration at 150 C°, mmol g^{-1}			Ref.
			S_{BET}	S_{meso}	V_{total}	V_{micro}	V_{meso}	BAS	LAS	Large base	
ITQ-2		30	827	221	0.76	0.09	0.67				
MCM-22		46	396	311	0.18	0.11	0.07				
ITQ-2		48	689	322	0.47	0.05	0.42				
Syntheses of MCM-22 with added % surfactant											4
MCM-22		15	634	149		0.19					
	7% surfactant		592	348		0.11					
	8% surfactant		557	359		0.09					
MCM-22		30	626	109		0.21					
	7% surfactant		370	228		0.06					
	8% surfactant		327	229		0.04					
MCM-22		45	565	76		0.19					
ITQ-2		15	662	519		0.07					
ITQ-2		45	612	506		0.06					5
										DTBP	
MCM-22			495	145	0.99	0.17	0.15	0.294	0.123	0.081	
MCM-56			437	162	1.01	0.13	0.16	0.230	0.220	0.080	
DS-ITQ-2			545	304	2.06	0.12	0.41	0.183	0.181	0.147	
ITQ-2			745	574	1.04	0.08	0.38	0.189	0.177	0.195	6
MCM-56		10	457	180		0.09		1.155	0.099		
MCM-56	exfoliated, isolated										
		8	502	220		0.071		0.649	0.259		
MCM-56		11	467	167		0.092		0.778	0.097		
MCM-56	exfoliated, isolated										
		9	633	309		0.105		0.557	0.244		7
MCM-56		11	514	225		0.087	0.04	0.669	0.148		

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			S _{BET}	S _{meso}	V _{total}	V _{micro}	V _{meso}	BAS	LAS	Large base	
MCM-56	exfoliated, dialyzed, isolated										
			566	171		0.108	0.08	0.598	0.18		
MCM-22		13.5	536		0.475	0.174		0.78	0.18	0.04	8
MCM-22	swell. calc.	15.8	460		0.396	0.144		0.50	0.24	0.01	
MCM-36		28.7	729		0.74	0.056		0.38	0.09	0.07	
MCM-36		32.5	578		0.444	0.047		0.29	0.1	0.02	
MCM-36		23.6	614		0.552	0.038		0.44	0.129	0.02	
MCM-56 CEC		50	283	166	0.66	0.061		0.078	0.125	0.034	
Swollen with HDTMA-Cl – tetramethylammonium hydroxide (TMAOH) mixtures											
MCM-36	4 TMA	36	678	644	0.57	0.019		0.199	0.129	0.055	
MCM-36	2 TMA		661	619	0.45	0.021					
MCM-36	1 TMA	35	633	594	0.54	0.024		0.105	0.176	0.058	
MCM-36	HDTMA-OH	67	725	616	0.70	0.061		0.091	0.077	0.051	
MCM-22		25						0.263	0.189	0.035	
MCM-36	4 TMA	60	593	457	0.51	0.072		0.146	0.065	0.026	
MCM-36	2 TMA	47	595	416	0.44	0.097		0.126	0.109	0.063	
MCM-22(A)		50	478	55	0.364			0.269	0.072	0.004	10
MCM-36(A)			535	115	0.33			0.197	0.176	0.016	
MCM-22(B)		50	484	33	0.309			0.187	0.052	0.035	
MCM-36(B)			697	162	0.564			0.135	0.182	0.145	
MCM-49		12	490					1.282	0.141	0.068	11
MCM-22		10	542					1.515	0.119	0.112	
MCM-22		21	418					0.758	0.055	0.068	
MCM-22		29	481					0.556	0.042	0.087	
MCM-22		40	329					0.407	0.032	0.087	

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			S _{BET}	S _{meso}	V _{total}	V _{micro}	V _{meso}	BAS	LAS	Large base	
MCM-36	swell RT	54	789					0.056	0.019		12
MCM-36	swell HT	24	862					0.062	0.061		
MCM-36	swell RT	23	742					0.108	0.040		

References to Table S3

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