

Supplementary Material

An Efficient Catalyst Prepared from Residual Kaolin for the Esterification of Distillate from the Deodorization of Palm Oil

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Elemental analysis by XRF of Table 2

SAMPLE:10HPMo/AlSiM

Measurement Condition						

Instrument: EDX-700		Atmosphere: He		Collimator: 10(mm)		

Analyte	TG kV	uA	FI	Acq. (keV)	Anal. (keV)	

Ti-U	Rh 50	15-Auto	--	0 - 40	0.0 -	40.0
Na-Sc	Rh 15	258-Auto	--	0 - 20	0.0 -	4.4

Quantitative Result						

Analyte	Result		(Std.Dev.)	Proc.-Calc		

Si02	83.220 %		(0.238)	Quan-FP		
Mo03	7.398 %		(0.019)	Quan-FP		
Al203	3.632 %		(0.135)	Quan-FP		
Fe203	2.602 %		(0.029)	Quan-FP		
Ti02	2.575 %		(0.057)	Quan-FP		
P205	0.572 %		(0.055)	Quan-FP		

SAMPLE: 10HPMo/AlSiM R1

Measurement Condition						
Instrument: EDX-700		Atmosphere: He		Collimator: 10(mm)		
Analyte	TG kV	uA	FI Acq. (keV)	Anal. (keV)		
Ti-U	Rh 50	15-Auto	-- 0 - 40	0.0 - 40.0		
Na-Sc	Rh 15	258-Auto	-- 0 - 20	0.0 - 4.4		
Quantitative Result						
Analyte	Result		(Std.Dev.)	Proc.-Calc		
SiO2	83.252 %		(0.238)	Quan-FP		
MoO3	7.365 %		(0.019)	Quan-FP		
Al2O3	3.633 %		(0.135)	Quan-FP		
Fe2O3	2.602 %		(0.029)	Quan-FP		
TiO2	2.575 %		(0.057)	Quan-FP		
P2O5	0.573 %		(0.055)	Quan-FP		

SAMPLE: 10HPMo/AlSiM R 2

Measurement Condition						

Instrument: EDX-700		Atmosphere: He		Collimator: 10(mm)		

Analyte	TG kV	uA	FI	Acq. (keV)	Anal. (keV)	

Ti-U	Rh 50	15-Auto	--	0 - 40	0.0 - 40.0	
Na-Sc	Rh 15	258-Auto	--	0 - 20	0.0 - 40.0	

Quantitative Result						

Analyte	Result		(Std.Dev.)		Proc.-C	

Si02	83.252 %		(0.238)		Quan-FP	
Mo03	7.365 %		(0.019)		Quan-FP	
Al203	3.633 %		(0.135)		Quan-FP	
Fe203	2.602 %		(0.029)		Quan-FP	
Ti02	2.575 %		(0.057)		Quan-FP	
P205	0.573 %		(0.055)		Quan-FP	

SAMPLE: 10HPMo/AlSiM R 3

Measurement Condition						
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Instrument: EDX-700		Atmosphere: He		Collimator: 10(mm)		
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Analyte	TG kV	uA	FI Acq. (keV)	Anal. (keV)		
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Ti-U	Rh 50	15-Auto	-- 0 - 40	0.0 - 40.0		
Na-Sc	Rh 15	258-Auto	-- 0 - 20	0.0 - 4.4		
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Quantitative Result						
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Analyte	Result		(Std.Dev.)	Proc.-Calc.		
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Si02	83.302 %		(0.238)	Quan-FP		
Mo03	7.362 %		(0.019)	Quan-FP		
Al203	3.635 %		(0.135)	Quan-FP		
Fe203	2.593 %		(0.029)	Quan-FP		
Ti02	2.535 %		(0.057)	Quan-FP		
P205	0.573 %		(0.055)	Quan-FP		

SAMPLE: 10HPMo/AlSiM R 4

Measurement Condition						

Instrument: EDX-700		Atmosphere: He		Collimator: 10(mm)		

Analyte	TG kV	uA	FI Acq. (keV)	Anal. (keV)		

Ti-U	Rh 50	15-Auto	-- 0 - 40	0.0 - 40.0		
Na-Sc	Rh 15	246-Auto	-- 0 - 20	0.0 - 4.4		

Quantitative Result						

Analyte	Result		(Std.Dev.)	Proc.-Calc		

Si02	89.987 %		(0.232)	Quan-FP		
Mo03	6.043 %		(0.015)	Quan-FP		
Al203	1.714 %		(0.129)	Quan-FP		
Ti02	1.511 %		(0.041)	Quan-FP		
P205	0.744 %		(0.055)	Quan-FP		