

LIST OF ABBREVIATIONS

AIDS	Acquired Immunity Deficiency Syndrome
APD	Average pore diameter
API	Active Pharmaceutical Ingredient
ATH	Aluminium Trihydrate
BEA	Beta zeolite
BET	Brunauer-Emmet-Teller
BJH	Barret–Joyner-Halenda
BPR	Back pressure regulator
BTX	Benzene-Toluene-Xylene
BV	Ball Valve
BZ	Benzene
C1	Methane
C2	Ethane and Ethylene
C3	Propane and Propylene
CAGR	Compounded Annual Growth Rate
CEDI	Charge Enhanced Dry Impregnation
CHN	Carbon-Hydrogen-Nitrogen Analyzer
DDO	Direct deoxygenation
DFT	Density Function Theory
DSC-TG	Differential Scanning Calorimetry cum Thermogravimetry
EB	Ethylbenzene
EDAX	Energy Dispersive Analysis of X-rays
FC	Flow controller
FI	Flow indicator
FID	Flame Ionization detector

FMCG	Fast Moving Commodity Goods
FTIR	Fourier Transform Infrared Spectroscopy
GC	Gas Chromatograph
GHG	Greenhouse Gases
GC-MS	Gas Chromatograph Coupled with Mass Spectrometer
GTL	Gas To Liquids
H ₂	Hydrogen
HDA	Hydrodealkylation
HDO	Hydrodeoxygenation
HE	Heavy ends
HPLC	High Pressure Liquid Chromatography
HYD	Hydrogenation
ICP	Inductively Coupled Plasma Analyzer
JCPDS	Joint Committee on Powder Diffraction Standards
MAPD	Methylacetylene and Propadiene
MFC	Mass Flow Controller
MS	Mass Spectroscopy
MSI	Metal Support Interaction
N ₂	Nitrogen
NRV	Non Return Valve
1-PEA	1-Phenylethanol
2-PEA	2-Phenyl ethanol
PAA	Phenylacetaldehyde
PC	Pressure controller/Regulator
PDF	Powder Diffraction File
PFHS	Precipitation from Homogeneous solution
PI	Pressure Indicator
PRV	Pressure Relief Valve
PSB	Pseudoboehmite
PV	Pore volume
PZC	Point of Zero Charge
SA	Specific surface area

SEA	Strong Electrostatic Adsorption
SEM	Scanning Electron Microscopy
SEM-EDAX	Scanning Electron Microscopy Coupled Energy Dispersive analysis of X-rays
SMR	Methane Steam Reforming
SO	Styrene oxide
STY	Space Time yield
TC	Temperature Controller
TCD	Thermal Conductivity detector
TEM	Transmission Electron Microscopy
TGA	Thermogravimetric analysis
TGA-MS	Thermogravimetric analysis coupled with Mass Spectroscopy
TI	Temperature Indicator
Tmax	Peak temperature
TPD	Temperature programmed desorption
TPR	Temperature programmed reduction
USHY	Ultrastable Y zeolite (Proton form)
W/F	Space Time
WHSV	Weight hourly space velocity
XPS	X-ray photoelectron Spectroscopy
XRD	X-ray Diffraction
ZSM-5	Zeolite Socony Mobil-5

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