

List of Abbreviations

$(C_3H_8)_{CB}$	Propane in carbon balance
$[C_3H_8]$	Concentration of propane in mol/l
AA	Acrylic acid
AHM	Ammonium molybdate tetrahydrate
AMV	Ammonium metavanadate
BET	Brunauer-Emmet-Teller
$C_3=$	Propylene
C_3H_8	Propane
$CH_2=CHCH_2OH$	Propylene
$CH_2=CHCHO$	Acrolein
$CH_2=CHCOOH$	Acrylic acid
$CH_3CH_2CH_3$	Propane
CH_3CH_2CHO	Propionaldehyde
CH_3CHO	Acetaldehyde
CH_3COCH_3	Acetone
CH_3COOH	Acetic acid
CO	Carbon monoxide
CO ₂	Carbon dioxide
COMBICAT	Combinatorial Technologies & Catalysis Research Center
DSC	Differential Scanning Calorimetry
DTG	Differential thermal gravimetric
EDX	Energy disperse X-ray
GHSV	Gas Hourly Space Velocity
H ₂ O	Water

PDF No	Powder Diffraction Number
MB	Material (mass) balance based on carbon balance
MMO	Multimetallic oxide catalyst
M-O	Metal-oxygen
MoVTeNbO _x	Molybdenum Vanadium Tellurium Niobium Oxide
N ₂	Nitrogen
nC ₆	n-Hexane
O ₂	Oxygen
S	Selectivity
S _{BET}	B.E.T surface area (m ² g ⁻¹)
SEM	Scanning Electron Microscopy
Std	Standard
STP	Standard Temperature and Pressure (T=20°C, P=0bar)
T	Absolute temperature, Kelvin (K)
TCD	Thermal conductivity detector
TGA	Thermogravimetric
X	Conversion
XRD	X-ray Powder Diffraction
Y	Yield