

LIST OF ABBREVIATIONS

AM 1	=	Austin Model 1
CH_3O^-	=	Methoxide
CH_3OH	=	Methanol
$\text{C}_{17}\text{H}_{33}\text{COOH}$	=	Oleic Acid
E	=	Energy
FAME	=	Fatty acid methyl ester
GAUSSIAN 03W	=	GAUSSIAN software for Windows
GaussViewW	=	GaussView software for window
H	=	Hamiltonian operator
HF	=	Hartree-Fock theory
NaOR	=	Sodium alkoxide
OH^-	=	Hydroxide ion
OH	=	Hydroxyl Group
PM3	=	MNDO parameter Method number 3
R-, R ₁ -, R ₂ -, R ₃ -, R ¹ -	=	Alkyl group of alcohol (CH_3 -)
R'-	=	Carbon chain of fatty acid ($\text{C}_{17}\text{H}_{33}$ -)
R''-	=	CH ₂ - CH - OCOR' CH ₂ - OCOR'
RO^-	=	Alkoxide group
ROH	=	Alcohol
Ψ	=	Wave Function