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ABBREVIATIONS

CHCl_3 = chloroform

NaCl = sodium chloride

H_2O = water

H_2SO_4 = sulfuric acid

HCl = hydrochloric acid

K_2CO_3 = potassium carbonate

DDQ = 2,3-dichloro-5,6-dicyanobenzoquinone

DMAP = 4-dimethylaminopyridine

EtOAc = ethyl acetate

MeOH = methanol

THF = tetrahydrofuran

Satd. = saturated

Conc. = concentration

$^{\circ}\text{C}$ = degree celcius

g = gram

mg = milligram

ng = nanogram

μg = microgram

L = liter

mL = milliliter

N = normality

mm = millimeter

μm = micrometer

h = hour

min = minute

TLC = thin layer chromatography

GC-MS = gas chromatography - mass spectrometer

^1H -NMR = proton nuclear magnetic resonance

^{13}C -NMR = carbon-thirteen nuclear magnetic resonance

δ = chemical shift

ppm = part per million

Hz = hertz

J = coupling constant

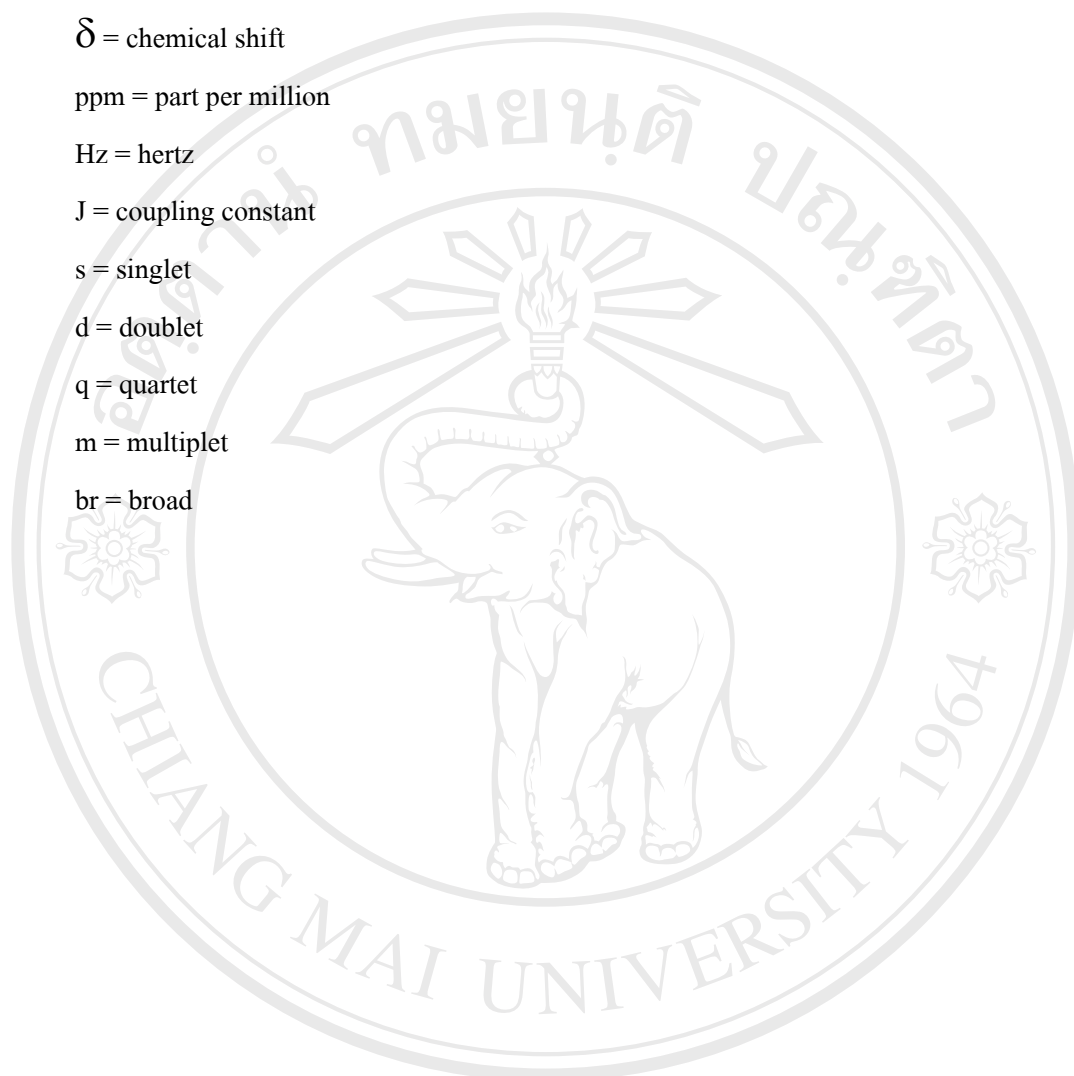
s = singlet

d = doublet

q = quartet

m = multiplet

br = broad



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