Supplementary Material (ESI) for Organic and Biomolecular Chemistry

Supplementary information

Chemiluminescence emission during based induced rearrangement of G-factors

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Data for A :

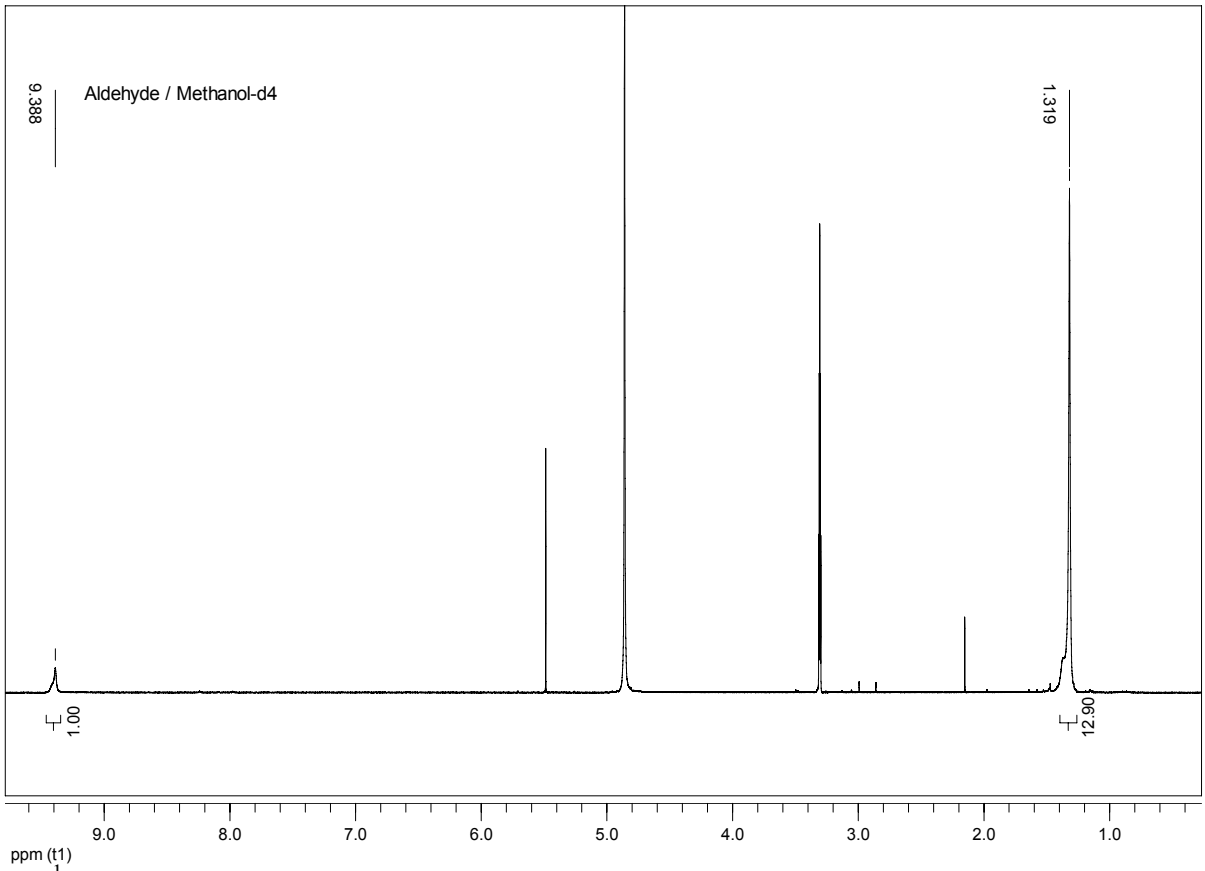
^{1}H and ^{13}C NMR spectra of **A** at respectively 400MHz and 100.6 MHz in CD_3OD
HMBC spectrum of **A**

MS : DCI/NH_3 (CH_2Cl_2/MeOH) negative mode

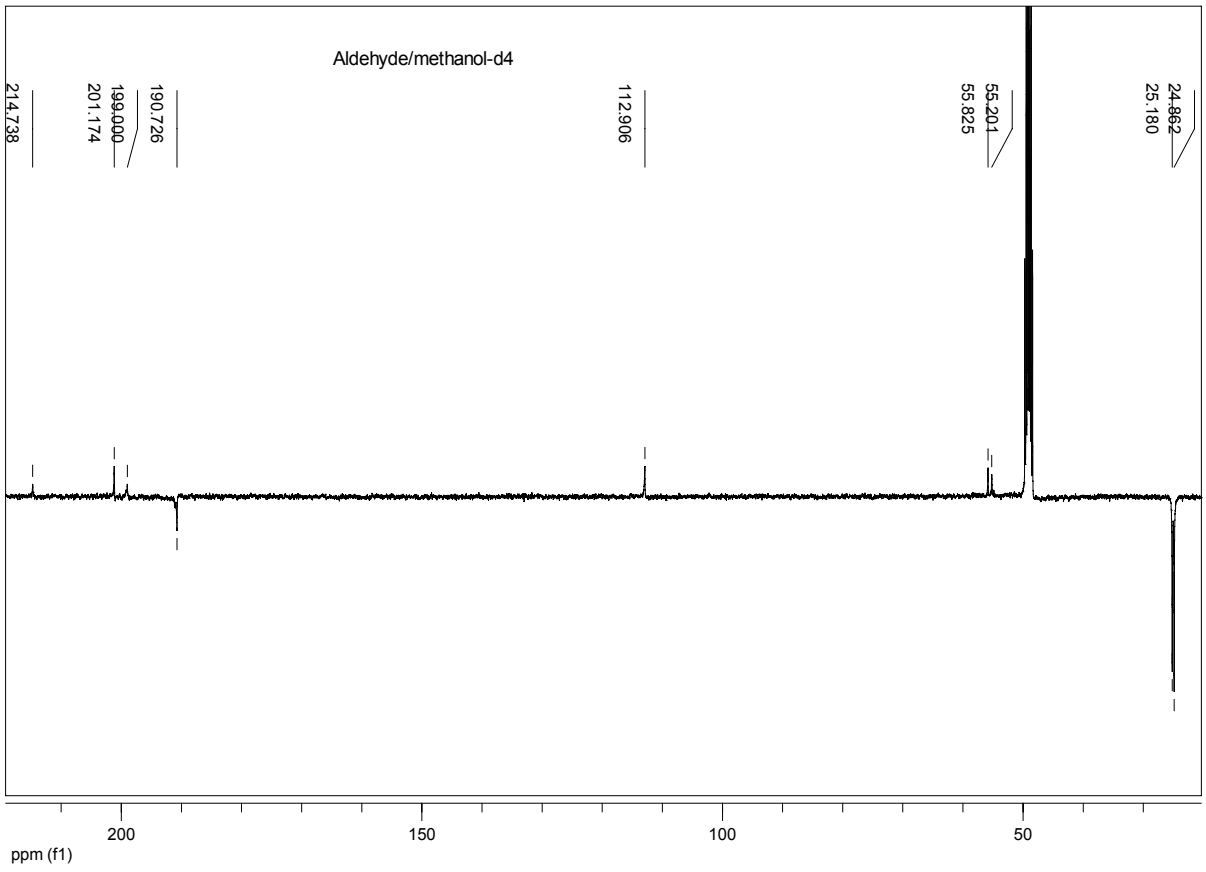
IR spectrum (neat in compressing cell)

Fluorescence spectra of aldehyde

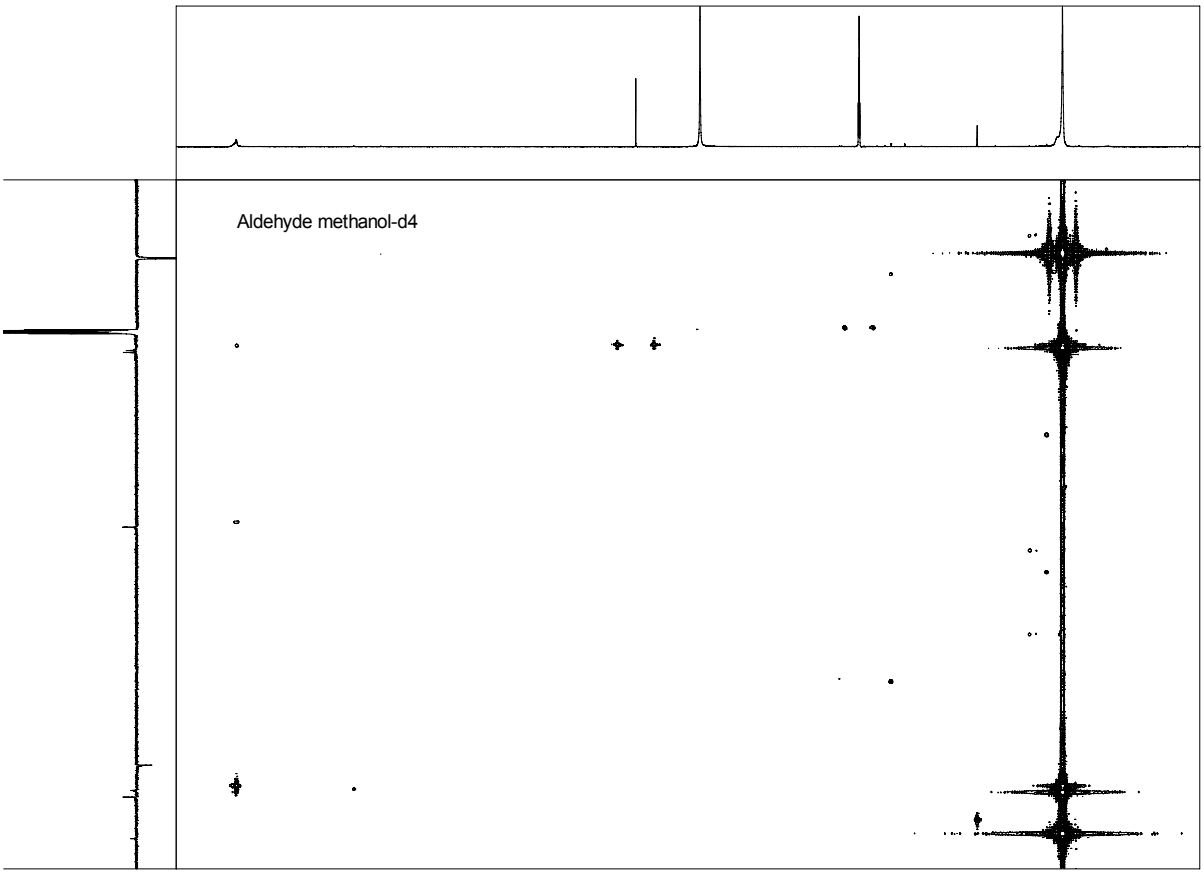
Crystallographic Information Files CIF-A.cif.



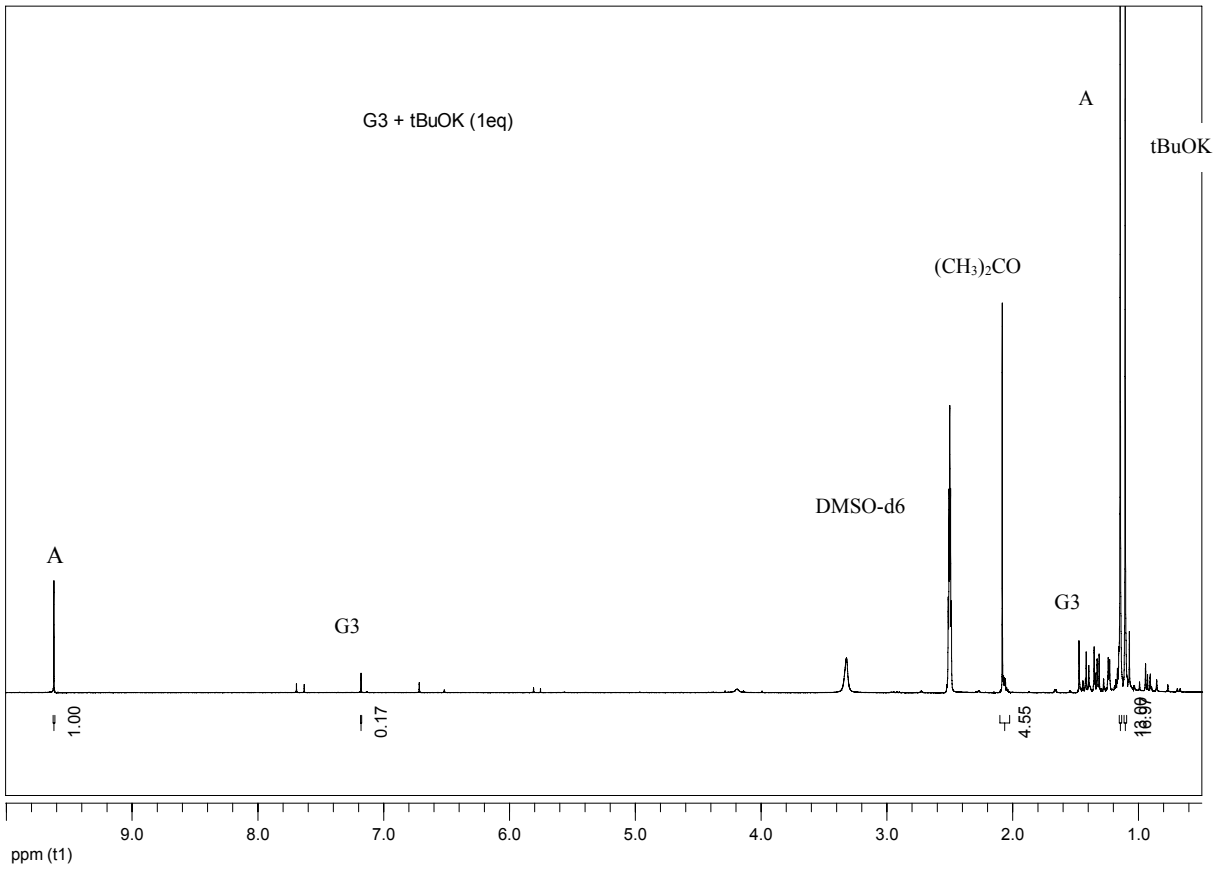
A : ^{1}H NMR (400MHz CD_3OD)



A : ^{13}C NMR (100.6 MHz CD_3OD)

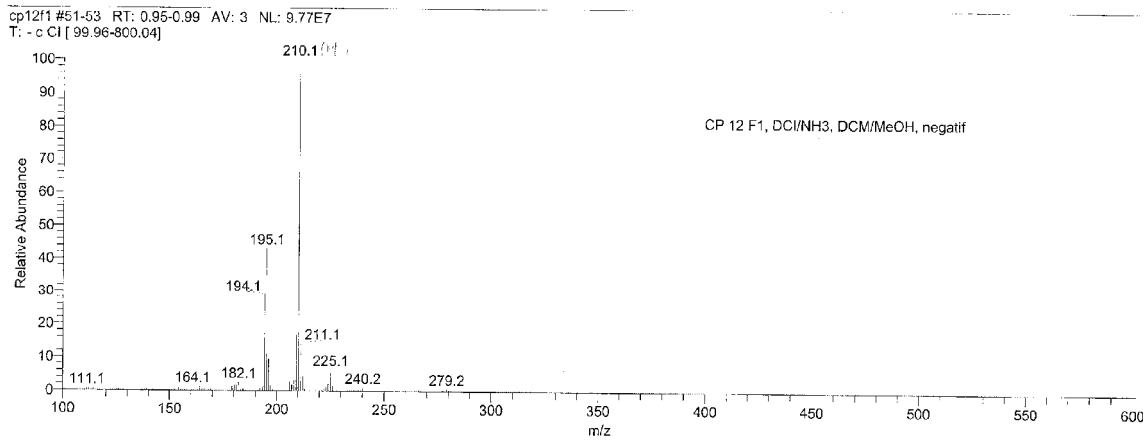


A : HMBC (400MHz, 100.6MHz, CD_3OD)

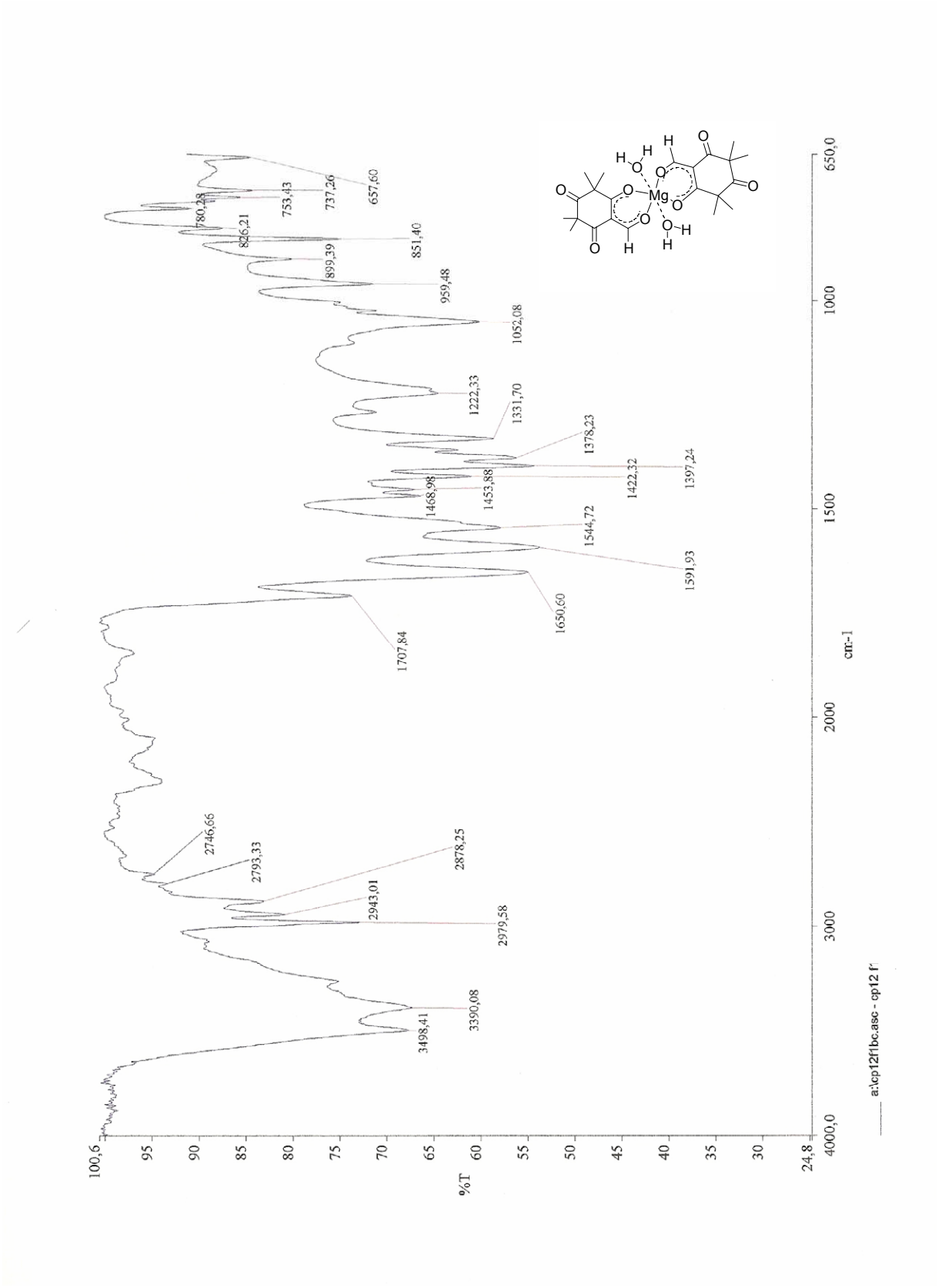


^{1}H NMR spectrum (300MHz) of reaction of G3 with tBuOK in DMSO

MS : DCI/NH_3 (CH_2Cl_2/MeOH) negative mode



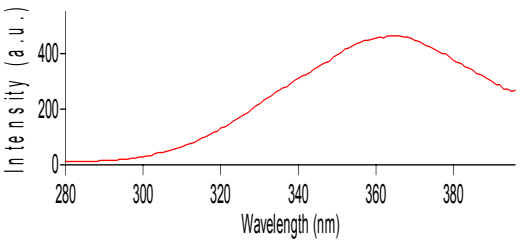
MS : DCI/NH_3 (CH_2Cl_2/MeOH) negative mode



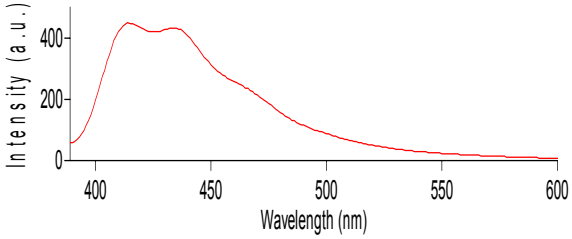
IR spectrum (*neat in compressing cell*)

Emitting species

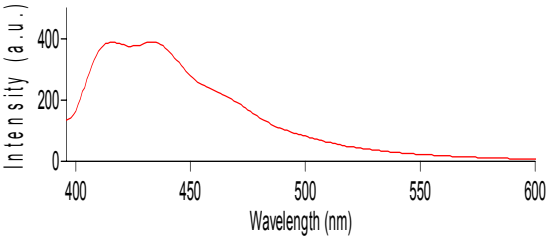
In basic conditions:
These fluorescence spectra were obtained after recording luminescence scan or kinetics of G3 compound with tBuOK in DMSO.



Excitation spectrum of aldehyde + tBuOK in DMSO (λ_{em}= 410 nm)

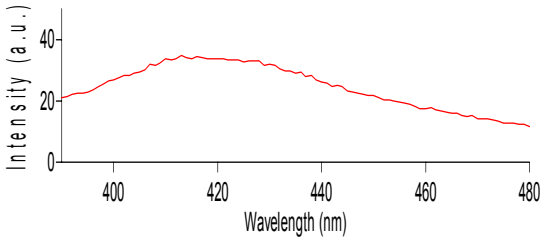


Emission spectrum of aldehyde + tBuOK in DMSO (λ_{ex}= 376nm)



Emission spectrum of aldehyde + tBuOK in DMSO (λ_{ex}= 366nm)

In neutral conditions



Emission spectrum of aldehyde obtained as a dimer of Mg in DMSO (λ_{ex}= 256 nm)