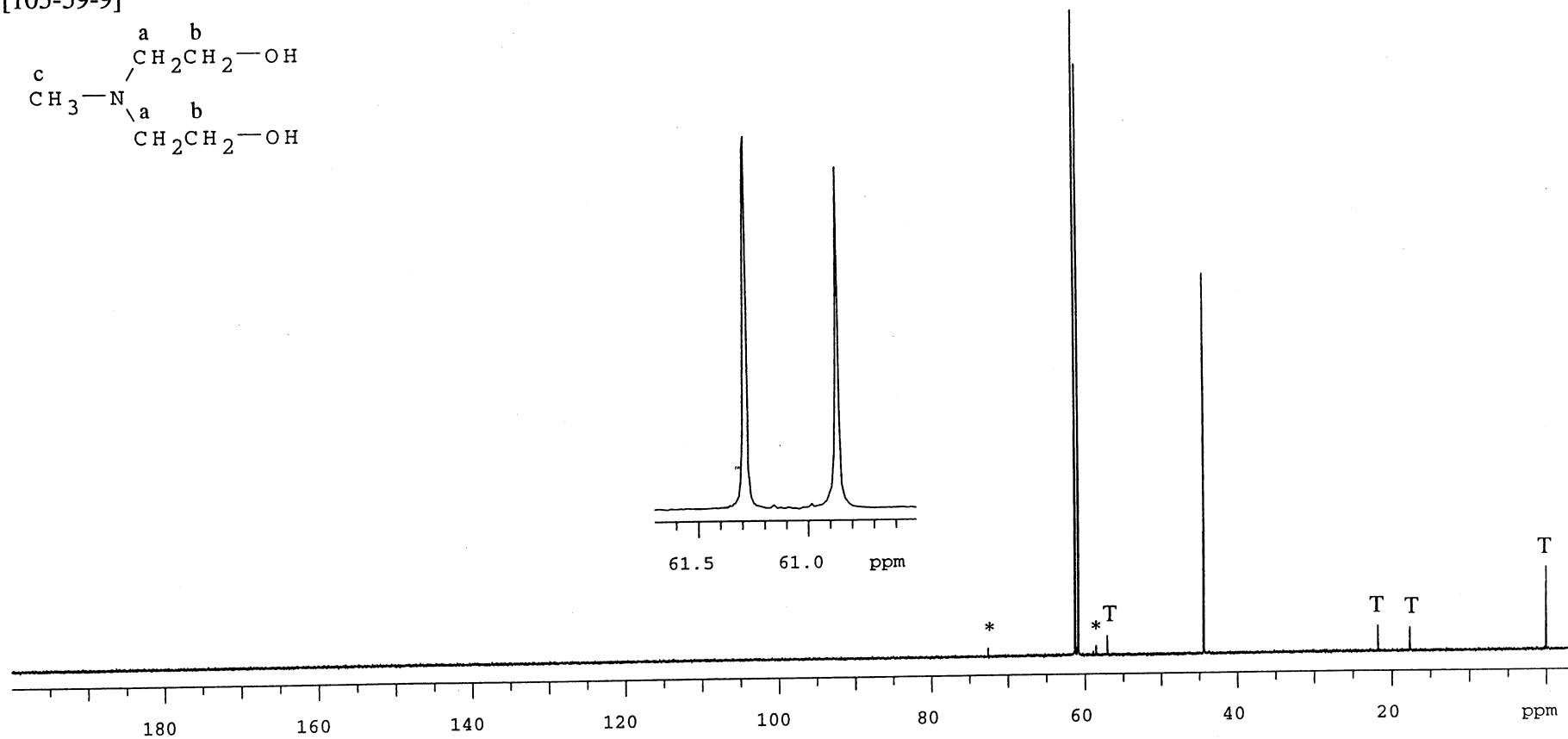
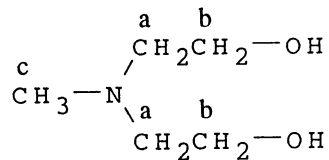


<sup>13</sup>C{<sup>1</sup>H} NMR

**Methyldiethanolamine**  
[105-59-9]



Solvent: D<sub>2</sub>O; pH 11.1  
Concentration: 17.5 mg/ 0.7 ml  
Reference substance: TSPSA  
Sample temperature: 25.0 °C  
Resonance frequency: 100.623 MHz  
Spectral width: 23809.5 Hz  
Data points (FID; spec.): 64 k; 64 k

Flip angle; Pulse width: 33 °; 2.3 μs  
No. of scans; Rep. time: 12288; 5.0 s  
Weighting; Line broad.: exp.; 0.5 Hz  
Spectral resolution: 0.4 Hz (TMS)  
Instrument: Bruker AMX-400  
Source reference: 940707-1667  
Signature: *Markku Mesilaakso*  
Markku Mesilaakso

nuc.	δ [ppm]
a	60.87
b	61.29
c	44.42

T = TSPSA

OPCW Code:05-3-0180(P1/1)