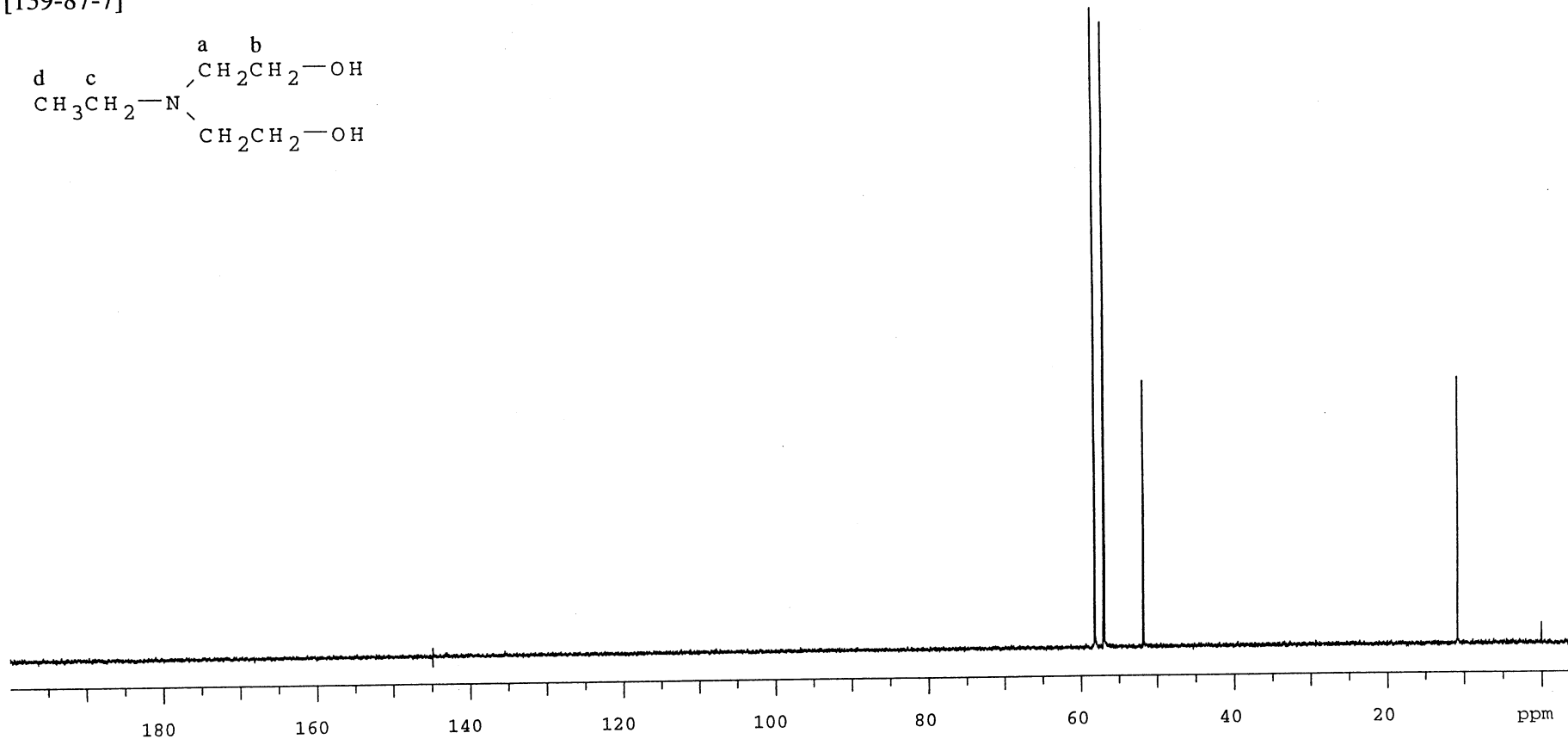
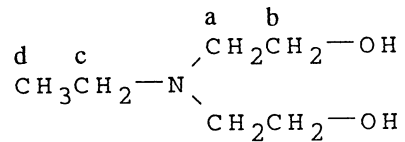


<sup>13</sup>C{<sup>1</sup>H} NMR

**Ethyldiethanolamine**

[139-87-7]



|                           |                          |                          |                              |      |         |
|---------------------------|--------------------------|--------------------------|------------------------------|------|---------|
| Solvent:                  | D <sub>2</sub> O; pH 7.7 | Flip angle; Pulse width: | 45 °; 3.8 μs                 | nuc. | δ [ppm] |
| Concentration:            | 23 μl/ 0.8 ml            | No. of scans; Rep. time: | 3072; 4.5 s                  | a    | 56.94   |
| Reference substance:      | TSP-d <sub>4</sub>       | Weighting; Line broad.:  | exp.; 1.0 Hz                 | b    | 58.21   |
| Sample temperature:       | 29.9 °C                  | Spectral resolution:     | 0.6 Hz (TSP-d <sub>4</sub> ) | c    | 51.81   |
| Resonance frequency:      | 100.624 MHz              | Instrument:              | Bruker AMX-400               | d    | 10.84   |
| Spectral width:           | 23809.5 Hz               | Source reference:        | 970204-3796                  |      |         |
| Data points (FID; spec.): | 64 k; 64 k               | Signature:               | <i>Markku Mesilaakso</i>     |      |         |
|                           |                          |                          | Markku Mesilaakso            |      |         |

OPCW Code:05-3-0174(p1/1)