

## List of spectral data (available in digital form)

## Explanation of the symbols:

|   |   |                                 |
|---|---|---------------------------------|
| M | = | digitised EI mass spectrum      |
| I | = | digitised infrared spectrum     |
| R | = | digitised raman spectrum        |
| H | = | digitised 1H NMR spectrum       |
| P | = | digitised 31P NMR spectrum      |
| C | = | digitised 13C NMR spectrum      |
| G | = | gas chromatographic data        |
| T | = | thin-layer chromatographic data |

## Chemical warfare agents

## Nerve agents

|       |    |  |
|-------|----|--|
| MIRHP | GT | isopropyl methylphosphonofluoridate (sarin)                    |
| MIR   | GT | cyclohexyl methylphosphonofluoridate (cyclohexylsarin)         |
| MIRHP | GT | 1,2,2-trimethylpropyl methylphosphonofluoridate (soman)        |
| MIRHP | GT | ethyl N,N-dimethylphosphoramidocyanidate (tabun)               |
| MI    | HP | GT ethyl S-2-diisopropylaminoethyl methylphosphonothioate (VX) |

## Vesicants

|      |     |  |
|------|-----|--|
| MIRH | CGT | 2,2'-dichlorodiethyl sulphide (mustard)                  |
| MI   | GT  | 1,2-bis(2-chloroethylthio)ethane (sesquimustard)         |
| M    | RH  | G bis(2-(2-chloroethylthio)ethyl)ether (dimustard ether) |
| MIR  | GT  | tris(2-chloroethyl)amine (N-mustard, HN-1)               |
| IR   | GT  | tris(2-chloroethyl)amine hydrochloride                   |
| MIR  | GT  | bis(2-chloroethyl)methylamine (N-mustard, HN-2)          |
| I    | GT  | bis(2-chloroethyl)methylamine hydrochloride              |
| MIR  | GT  | bis(2-chloroethyl)ethylamine (N-mustard, HN-3)           |
| I    | GT  | bis(2-chloroethyl)ethylamine hydrochloride               |
| MI   | GT  | 2-chlorovinyl dichloroarsine (lewisite I)                |
| MIR  | GT  | bis(2-chlorovinyl)chloroarsine (lewisite II)             |
| MI   | GT  | tris(2-chlorovinyl)arsine (lewisite III)                 |
| MIR  |     | dichloroformaldoxime (phosgene oxime)                    |

## Suffocating agents

|    |   |  |
|----|---|--|
| MI |   | carbonyl dichloride (phosgene)             |
| MI |   | trichloromethyl chloroformate (diphosgene) |
| MI | G | trichloronitromethane (chloropicrin)       |

## Paralysants

|     |   |                   |
|-----|---|-------------------|
| MI  | G | hydrogen cyanide  |
| MI  |   | cyanogen chloride |
| MIR |   | cyanogen bromide  |

## Psychochemicals

|    |    |                                |
|----|----|--------------------------------|
| MI | GT | 3-quinuclidinyl benzilate (BZ) |
|----|----|--------------------------------|

## Irritants

|      |    |   |
|------|----|---|
| MIR  | GT | omega-chloroacetophenone (CN)                         |
| MIR  | GT | alpha-bromobenzyl cyanide (CA)                        |
| MIRH | GT | 2-chlorobenzylidenemalononitrile (CS)                 |
| MI   | GT | dibenzoxazepine (CR)                                  |
| MI   | T  | methyldichloroarsine                                  |
| MI   | T  | ethyldichloroarsine                                   |
| MI   | T  | phenyldichloroarsine                                  |
| MI   | T  | 10-chloro-S,10-dihydro-5H-dibenz[1,2-b:4,5-b']azepine |
| MI   | T  | diphenylchloroarsine                                  |
| MI   | T  | diphenylcyanoarsine                                   |