

**NOTE BY THE TECHNICAL SECRETARIAT****REPORT OF THE FIFTY-FIRST MEETING OF THE VALIDATION GROUP
FOR THE UPDATING OF THE OPCW CENTRAL ANALYTICAL DATABASE
31 MARCH – 1 APRIL 2021**

1. The Validation Group met on 31 March 2021 to discuss the evaluation of new analytical data for possible inclusion in the OPCW Central Analytical Database (OCAD) and to consider matters related to this database. Mr Brian Mayer (United States of America) served as Chairperson of the meeting. Due to travel challenges related to the COVID-19 pandemic, the meeting was held remotely via video conference. The subgroup meetings addressing data review were held prior to the main Validation Group meeting.
2. The evaluators for the analytical techniques evaluated new data and reported to the coordinators for each analytical technique. The names of the coordinators who were present at the meeting, along with the technique for which each was responsible, are listed below.

Mr Ferdinand Visser (South Africa)	Gas chromatography (retention index) (GC(RI))
Ms Karin Höjer Holmgren (Sweden)	Mass spectrometry (MS)
Mr Armando Alcaraz (United States of America)	Infrared (IR) spectroscopy
Mr Damian Magiera (Germany)	Nuclear magnetic resonance (NMR) spectroscopy

3. The coordinators provided an evaluation summary of the data to the Validation Group for discussion at the meeting. The evaluators finalised the evaluation of the analytical data and confirmed that the approved data was technically valid.
4. A discussion was held about the broader distribution of new MS data to help assist in the evaluation of both GC(RI) and IR data. The evaluators agreed that having this new MS data would greatly aid in evaluation, regardless of technique.
5. This report presents the sets of validated analytical data on scheduled chemicals (Annex 1) to be forwarded to the Director-General for appropriate action. No data for non-scheduled or derivatised chemicals relevant to the Chemical Weapons Convention were evaluated this cycle.
6. Annex 2 to this report lists the members and evaluators of the Validation Group.



7. Available data from all analytical techniques will be sent to the Validation Group at least six weeks before its next scheduled meeting, which is set to take place on 22 and 23 September 2021. The evaluators agreed to come to the meeting prepared to finalise the evaluation of the analytical data provided to the Group. In the event that travel to the OPCW is still not possible at that time, the evaluators agreed to meet virtually on 22 September 2021, and to have data evaluation by the subgroups completed prior to that meeting.

Annexes:

- Annex 1: Lists of Approved Data on Scheduled Chemicals Recommended for Inclusion in the OPCW Central Analytical Database
- Annex 2: List of Members of the Validation Group

Annex 1**LISTS OF APPROVED DATA ON SCHEDULED CHEMICALS RECOMMENDED FOR INCLUSION IN THE OPCW CENTRAL ANALYTICAL DATABASE**

Note: In the “Decision” column of the tables that follow, “A” means “accepted” and “B” means “accepted subject to minor corrections”.

TABLE 1: LIST OF APPROVED MS DATA ON SCHEDULED CHEMICALS

OPCW Code	Chemical Name	Schedule	Decision
04-2-0613	1-Ethylpropyl N-ethyl-N-methylphosphoramidocyanidate	1.A.02	A
04-2-0616a	3,5-Dimethylcyclohexyl N-ethyl-N-methylphosphoramidocyanidate	1.A.02	A
04-2-0616b	3,5-Dimethylcyclohexyl N-ethyl-N-methylphosphoramidocyanidate	1.A.02	A
04-2-0617a	1,4-Dimethylpentyl N-ethyl-N-methylphosphoramidocyanidate	1.A.02	A
04-2-0619b	2-Methylcyclopentyl N-ethyl-N-methylphosphoramidocyanidate	1.A.02	A
32-2-0001	3,3-Dimethylbutan-2-ol	2.B.14	B

TABLE 2: LIST OF APPROVED GC(RI) DATA ON SCHEDULED CHEMICALS

Note: Under the “Column” heading for GC(RI) data, a “1” means an HP5 or an SE54 column, and a “2” means a DB-5MS column.

OPCW Code	Chemical Name	Schedule	Column	RI(a)	RI(b)	Decision
04-4-0421	2,2-Dimethylpropyl N-ethyl-N-methylphosphoramidocyanidate	1.A.02	1	1375		A
04-4-0422	1-Ethylpropyl N-ethyl-N-methylphosphoramidocyanidate	1.A.02	1	1422		A
04-4-0424	Pinacolyl N-ethyl-N-methylphosphoramidocyanidate	1.A.02	1	1431	1436	A
04-4-0425	3,5-Dimethylcyclohexyl N-ethyl-N-methylphosphoramidocyanidate	1.A.02	1	1736	1742	A
04-4-0426	1,4-Dimethylpentyl N-ethyl-N-methylphosphoramidocyanidate	1.A.02	1	1552	1559	A
04-4-0428	2-Methylcyclopentyl N-ethyl-N-methylphosphoramidocyanidate	1.A.02	1	1536	1547	A

TABLE 3: LIST OF APPROVED IR DATA ON SCHEDULED CHEMICALS

OPCW Code	Chemical Name	Schedule	Decision
04-1-0425v	1-Ethylpropyl N-ethyl-N-methylphosphoramidocyanidate	1.A.02	A
04-1-0426v	1,1,2-Trimethylpropyl N-ethyl-N-methylphosphoramidocyanidate	1.A.02	A
04-1-0427v	Pinacolyl N-ethyl-N-methylphosphoramidocyanidate	1.A.02	A
04-1-0428v	3,5-Dimethylcyclohexyl N-ethyl-N-methylphosphoramidocyanidate	1.A.02	A
04-1-0429v	1,4-Dimethylpentyl N-ethyl-N-methylphosphoramidocyanidate	1.A.02	A
04-1-0430v	1-Isopropyl-2-methylpropyl N-ethyl-N-methylphosphoramidocyanidate	1.A.02	A
04-1-0432v	2,6-Dimethylcyclohexyl N-ethyl-N-methylphosphoramidocyanidate	1.A.02	A
04-1-0433v	4-tert-Butylcyclohexyl N-ethyl-N-methylphosphoramidocyanidate	1.A.02	A

Annex 2

LIST OF MEMBERS OF THE VALIDATION GROUP

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