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NOTE BY THE DIRECTOR-GENERAL**LISTS OF NEWLY VALIDATED DATA ON SCHEDULED CHEMICALS FOR
APPROVAL BY THE EXECUTIVE COUNCIL FOR INCLUSION IN THE OPCW
CENTRAL ANALYTICAL DATABASE**

1. In accordance with the decision by the Executive Council (the Council) at its Fourth Session entitled “Proposed Mechanism for Updating the OPCW Central Analytical Database” (EC-IV/DEC.2, dated 5 September 1997), which was subsequently adopted by the Conference of the States Parties at its Second Session (subparagraph 11.2(c) of C-II/8, dated 5 December 1997), the Director-General established a Validation Group to evaluate new data to be proposed for inclusion in the OPCW Central Analytical Database (OCAD). The Group held its fifty-eighth meeting on 18 and 19 September 2024 (in hybrid format) and its fifty-ninth meeting on 9 and 10 April 2025 (in hybrid format),¹ and submitted lists of validated analytical data to the Director-General for recommendation for inclusion in the OCAD.
2. In accordance with the aforementioned mechanism for updating the OCAD, lists of newly validated data proposed for inclusion in the OCAD are to be submitted to the members of the Council and distributed to all States Parties no later than 30 days before the opening of the 109th Session of the Council, during which the Council will be requested to consider the data and approve its inclusion in the OCAD. The Technical Secretariat (the Secretariat) hereby submits to the members of the Council and distributes to all States Parties the lists of newly validated analytical data proposed for inclusion in the OCAD (see the Annex to this Note).
3. The Verification Division will, upon request, make available to States Parties copies of the newly validated mass spectrometry (MS), nuclear magnetic resonance (NMR), gas chromatography (retention index) (GC(RI)), and gas chromatography-high resolution mass spectrometry (GC-HRMS) data listed in the Annex. In accordance with the mechanism referred to in paragraph 1 above, any State Party that has concerns about the proposed inclusion of any of this data in the OCAD should make them known to the Secretariat before the 109th Session of the Council.

Annex (English only): Lists of Newly Validated Data on Scheduled Chemicals

¹ The reports of these meetings were issued under the symbols S/2330/2024 (dated 29 October 2024) and S/2399/2025 (dated 2 May 2025), respectively.



Annex

LISTS OF NEWLY VALIDATED DATA ON SCHEDULED CHEMICALS

TABLE 1: LIST OF APPROVED MS DATA ON SCHEDULED CHEMICALS

OPCW Code	Chemical Name	Schedule
04-2-0659	Cyclopentyl N-ethyl-N-propylphosphoramidocyanidate	1.A.02
04-2-0660b	2-Methylcyclopentyl N-ethyl-N-propylphosphoramidocyanidate	1.A.02
05-2-0206	N-(Bis(diethylamino)methylidene)-P-methylphosphonamidic fluoride	1.A.15
05-2-0208	Ethyl N-(1-(diethylamino)ethylidene)phosphoramidofluoridate	1.A.14
07-2-3608	N-(1-(Dipropylamino)ethylidene)-P-methylphosphonamidic fluoride	1.A.13
07-2-3609	N-(1-(Dibutylamino)ethylidene)-P-methylphosphonamidic fluoride	1.A.13
07-2-3610	N-(1-(Diethylamino)ethylidene)-P-methylphosphonamidic fluoride	1.A.13
07-2-3611	N-(1-(Diethylamino)ethylidene)-P-pentylphosphonamidic fluoride	1.A.13
07-2-3612	N-(1-(Dipropylamino)ethylidene)-P-pentylphosphonamidic fluoride	1.A.13
07-2-3613	N-(1-(Dibutylamino)ethylidene)-P-pentylphosphonamidic fluoride	1.A.13
07-2-3615	N-(1-(Diethylamino)ethylidene)-P-hexylphosphonamidic fluoride	1.A.13
07-2-3616	N-(1-(Dipropylamino)ethylidene)-P-hexylphosphonamidic fluoride	1.A.13
07-2-3617	N-(1-(Dibutylamino)ethylidene)-P-hexylphosphonamidic fluoride	1.A.13
07-2-3619	N-(1-(Diethylamino)ethylidene)-P-octylphosphonamidic fluoride	1.A.13
07-2-3620	N-(1-(Dipropylamino)ethylidene)-P-octylphosphonamidic fluoride	1.A.13
07-2-3621	N-(1-(Dibutylamino)ethylidene)-P-octylphosphonamidic fluoride	1.A.13
07-2-3623	N-(1-(Diethylamino)ethylidene)-P-decylphosphonamidic fluoride	1.A.13

OPCW Code	Chemical Name	Schedule
07-2-3624	N-(1-(Dipropylamino)ethylidene)-P-decylphosphonamidic fluoride	1.A.13
07-2-3625	N-(1-(Dibutylamino)ethylidene)-P-decylphosphonamidic fluoride	1.A.13
29-2-0011	N-(1-(Dimethylamino)ethylidene)-P-methylphosphonamidic fluoride	1.A.13
29-2-0012	N-(1-(Ethylmethylamino)ethylidene)-P-methylphosphonamidic fluoride	1.A.13
29-2-0013	N-(1-(Methylpropylamino)ethylidene)-P-methylphosphonamidic fluoride	1.A.13
29-2-0014	N-(1-(Isopropylmethylamino)ethylidene)-P-methylphosphonamidic fluoride	1.A.13
29-2-0015	N-(1-(Diethylamino)ethylidene)-P-methylphosphonamidic fluoride	1.A.13
29-2-0016	N-(1-(Dipropylamino)ethylidene)-P-methylphosphonamidic fluoride	1.A.13
29-2-0017	N-(1-(Diisopropylamino)ethylidene)-P-methylphosphonamidic fluoride	1.A.13
29-2-0018	N-(1-(Dibutylamino)ethylidene)-P-methylphosphonamidic fluoride	1.A.13
29-2-0019r	Methyl N-(1-(dibutylamino)ethylidene)phosphoramidofluoridate	1.A.14
29-2-0020	Methyl N-(1-(dipropylamino)butylidene)phosphoramidofluoridate	1.A.14
29-2-0021	Methyl N-(1-(dibutylamino)butylidene)phosphoramidofluoridate	1.A.14
29-2-0022	Ethyl N-(1-(ethylmethylamino)ethylidene)phosphoramidofluoridate	1.A.14
29-2-0023	Ethyl N-(1-(methylpropylamino)ethylidene)phosphoramidofluoridate	1.A.14
29-2-0024	Ethyl N-(1-(diisopropylamino)ethylidene)phosphoramidofluoridate	1.A.14
29-2-0025	O-Methyl S-propyl methylphosphonothiolate	2.B.04
29-2-0026	O-Methyl S-isopropyl methylphosphonothiolate	2.B.04
29-2-0027	O-Methyl S-butyl methylphosphonothiolate	2.B.04
29-2-0028	O-Methyl S-cyclohexyl methylphosphonothiolate	2.B.04
29-2-0029	O-Methyl S-hexyl methylphosphonothiolate	2.B.04

OPCW Code	Chemical Name	Schedule
29-2-0030	O-Methyl S-heptyl methylphosphonothiolate	2.B.04
29-2-0031	O-Ethyl S-propyl methylphosphonothiolate	2.B.04
29-2-0032	O-Ethyl S-isopropyl methylphosphonothiolate	2.B.04
29-2-0033	O-Ethyl S-butyl methylphosphonothiolate	2.B.04
29-2-0034	O-Ethyl S-cyclohexyl methylphosphonothiolate	2.B.04
29-2-0035	O-Ethyl S-hexyl methylphosphonothiolate	2.B.04
29-2-0036	O-Ethyl S-heptyl methylphosphonothiolate	2.B.04
36-2-0001r	Diisopropyl methylphosphonate	2.B.04
36-2-0005	N-(1-(Dipropylamino)ethylidene)-P-methylphosphonamidic fluoride	1.A.13

TABLE 2: LIST OF APPROVED NMR DATA ON SCHEDULED CHEMICALS

OPCW Code	Chemical Name	Schedule
23-3-0011r	Methyl N-(1-(diethylamino)ethylidene)phosphoramidofluoridate	1.A.14
23-3-0012r	Methyl N-(1-(diethylamino)ethylidene)phosphoramidofluoridate	1.A.14
23-3-0015r	Ethyl N-(1-(diethylamino)ethylidene)phosphoramidofluoridate	1.A.14
23-3-0016r	Ethyl N-(1-(diethylamino)ethylidene)phosphoramidofluoridate	1.A.14

TABLE 3: LIST OF APPROVED GC(RI) DATA ON SCHEDULED CHEMICALS

Note: A “1” under the “Column” heading for GC(RI) data 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)
04-4-0468	Cyclopentyl N-ethyl-N-propylphosphoramidocyanate	1.A.02	1	1670	
04-4-0469	2-Methylcyclopentyl N-ethyl-N-propylphosphoramidocyanate	1.A.02	1	1698	1702
05-4-0212	N-(Bis(diethylamino)methylidene)-P-methylphosphonamidic fluoride	1.A.15	2	1653	
05-4-0214	Ethyl N-(1-(diethylamino)ethylidene)phosphoramidofluoridate	1.A.14	2	1662	
07-4-3471	N-(1-(Dipropylamino)ethylidene)-P-methylphosphonamidic fluoride	1.A.13	2	1650	
07-4-3472	N-(1-(Dibutylamino)ethylidene)-P-methylphosphonamidic fluoride	1.A.13	2	1830	
07-4-3473	N-(1-(Dioctylamino)ethylidene)-P-methylphosphonamidic fluoride	1.A.13	2	2607	
07-4-3474	N-(1-(Diethylamino)ethylidene)-P-pentylphosphonamidic fluoride	1.A.13	2	1881	
07-4-3475	N-(1-(Dipropylamino)ethylidene)-P-pentylphosphonamidic fluoride	1.A.13	2	2019	
07-4-3476	N-(1-(Dibutylamino)ethylidene)-P-pentylphosphonamidic fluoride	1.A.13	2	2187	
07-4-3478	N-(1-(Diethylamino)ethylidene)-P-hexylphosphonamidic fluoride	1.A.13	2	1984	
07-4-3479	N-(1-(Dipropylamino)ethylidene)-P-hexylphosphonamidic fluoride	1.A.13	2	2119	
07-4-3480	N-(1-(Dibutylamino)ethylidene)-P-hexylphosphonamidic fluoride	1.A.13	2	2285	
07-4-3482	N-(1-(Diethylamino)ethylidene)-P-octylphosphonamidic fluoride	1.A.13	2	2193	
07-4-3483	N-(1-(Dipropylamino)ethylidene)-P-octylphosphonamidic fluoride	1.A.13	2	2326	
07-4-3484	N-(1-(Dibutylamino)ethylidene)-P-octylphosphonamidic fluoride	1.A.13	2	2489	
07-4-3486	N-(1-(Diethylamino)ethylidene)-P-decylphosphonamidic fluoride	1.A.13	2	2404	
07-4-3487	N-(1-(Dipropylamino)ethylidene)-P-decylphosphonamidic fluoride	1.A.13	2	2535	

OPCW Code	Chemical Name	Schedule	Column	RI(a)	RI(b)
07-4-3488	N-(1-(Dibutylamino)ethylidene)-P-decylphosphonamidic fluoride	1.A.13	2	2695	
29-4-0011	N-(1-(Dimethylamino)ethylidene)-P-methylphosphonamidic fluoride	1.A.13	1	1427	
29-4-0012	N-(1-(Ethylmethylamino)ethylidene)-P-methylphosphonamidic fluoride	1.A.13	1	1481	
29-4-0013	N-(1-(Methylpropylamino)ethylidene)-P-methylphosphonamidic fluoride	1.A.13	1	1562	
29-4-0014	N-(1-(Isopropylmethylamino)ethylidene)-P-methylphosphonamidic fluoride	1.A.13	1	1539	
29-4-0015	N-(1-(Diethylamino)ethylidene)-P-methylphosphonamidic fluoride	1.A.13	1	1530	
29-4-0016	N-(1-(Dipropylamino)ethylidene)-P-methylphosphonamidic fluoride	1.A.13	1	1677	
29-4-0017	N-(1-(Diisopropylamino)ethylidene)-P-methylphosphonamidic fluoride	1.A.13	1	1634	
29-4-0018	N-(1-(Dibutylamino)ethylidene)-P-methylphosphonamidic fluoride	1.A.13	1	1859	
29-4-0019	Methyl N-(1-(dibutylamino)ethylidene)phosphoramidofluoridate	1.A.14	1	1922	
29-4-0020	Methyl N-(1-(dipropylamino)butylidene)phosphoramidofluoridate	1.A.14	1	1799	
29-4-0021	Methyl N-(1-(dibutylamino)butylidene)phosphoramidofluoridate	1.A.14	1	1963	
29-4-0022	Ethyl N-(1-(ethylmethylamino)ethylidene)phosphoramidofluoridate	1.A.14	1	1621	
29-4-0023	Ethyl N-(1-(methylpropylamino)ethylidene)phosphoramidofluoridate	1.A.14	1	1698	
29-4-0024	Ethyl N-(1-(diisopropylamino)ethylidene)phosphoramidofluoridate	1.A.14	1	1737	
29-4-0025	O-Methyl S-propyl methylphosphonothiolate	2.B.04	1	1205	
29-4-0026	O-Methyl S-isopropyl methylphosphonothiolate	2.B.04	1	1143	
29-4-0027	O-Methyl S-butyl methylphosphonothiolate	2.B.04	1	1303	
29-4-0028	O-Methyl S-cyclohexyl methylphosphonothiolate	2.B.04	1	1549	
29-4-0029	O-Methyl S-hexyl methylphosphonothiolate	2.B.04	1	1508	
29-4-0030	O-Methyl S-heptyl methylphosphonothiolate	2.B.04	1	1612	

OPCW Code	Chemical Name	Schedule	Column	RI(a)	RI(b)
29-4-0031	O-Ethyl S-propyl methylphosphonothiolate	2.B.04	1	1266	
29-4-0032	O-Ethyl S-isopropyl methylphosphonothiolate	2.B.04	1	1202	
29-4-0033	O-Ethyl S-butyl methylphosphonothiolate	2.B.04	1	1361	
29-4-0034	O-Ethyl S-cyclohexyl methylphosphonothiolate	2.B.04	1	1603	
29-4-0035	O-Ethyl S-hexyl methylphosphonothiolate	2.B.04	1	1563	
29-4-0036	O-Ethyl S-heptyl methylphosphonothiolate	2.B.04	1	1665	
36-4-0005	N-(1-(Dipropylamino)ethylidene)-P-methylphosphonamidic fluoride	1.A.13	1	1678	

TABLE 4: LIST OF APPROVED GC-HRMS DATA ON SCHEDULED CHEMICALS

OPCW Code	Chemical Name	Schedule
29-7-0001	N-(1-(Dimethylamino)ethylidene)-P-methylphosphonamidic fluoride	1.A.13
29-7-0002	N-(1-(Ethylmethylamino)ethylidene)-P-methylphosphonamidic fluoride	1.A.13
29-7-0003	N-(1-(Methylpropylamino)ethylidene)-P-methylphosphonamidic fluoride	1.A.13
29-7-0004	N-(1-(Isopropylmethylamino)ethylidene)-P-methylphosphonamidic fluoride	1.A.13
29-7-0005	N-(1-(Diethylamino)ethylidene)-P-methylphosphonamidic fluoride	1.A.13
29-7-0006r	N-(1-(Dipropylamino)ethylidene)-P-methylphosphonamidic fluoride	1.A.13
29-7-0007	N-(1-(Diisopropylamino)ethylidene)-P-methylphosphonamidic fluoride	1.A.13
29-7-0008	N-(1-(Dibutylamino)ethylidene)-P-methylphosphonamidic fluoride	1.A.13
29-7-0009	Methyl N-(1-(dibutylamino)ethylidene)phosphoramidoofluoridate	1.A.14
29-7-0010	Methyl N-(1-(dipropylamino)butylidene)phosphoramidoofluoridate	1.A.14
29-7-0011	Methyl N-(1-(dibutylamino)butylidene)phosphoramidoofluoridate	1.A.14
29-7-0013	Ethyl N-(1-(methylpropylamino)ethylidene)phosphoramidoofluoridate	1.A.14
29-7-0014	Ethyl N-(1-(diisopropylamino)ethylidene)phosphoramidoofluoridate	1.A.14
29-7-0015	O-Methyl S-propyl methylphosphonothiolate	2.B.04
29-7-0016	O-Methyl S-isopropyl methylphosphonothiolate	2.B.04
29-7-0017	O-Methyl S-butyl methylphosphonothiolate	2.B.04
29-7-0018r	O-Methyl S-cyclohexyl methylphosphonothiolate	2.B.04
29-7-0019r	O-Methyl S-hexyl methylphosphonothiolate	2.B.04
29-7-0020r	O-Methyl S-heptyl methylphosphonothiolate	2.B.04
29-7-0021	O-Ethyl S-propyl methylphosphonothiolate	2.B.04

OPCW Code	Chemical Name	Schedule
29-7-0022	O-Ethyl S-isopropyl methylphosphonothiolate	2.B.04
29-7-0023	O-Ethyl S-butyl methylphosphonothiolate	2.B.04
29-7-0024	O-Ethyl S-cyclohexyl methylphosphonothiolate	2.B.04
29-7-0025	O-Ethyl S-hexyl methylphosphonothiolate	2.B.04
29-7-0026r	O-Ethyl S-heptyl methylphosphonothiolate	2.B.04

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