



OPCW

Executive Council

109th Session
8 – 11 July 2025

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8 July 2025
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DECISION

LISTS OF NEWLY VALIDATED DATA ON SCHEDULED CHEMICALS FOR INCLUSION IN THE OPCW CENTRAL ANALYTICAL DATABASE

The Executive Council,

Recalling that the Executive Council (the Council) at its Fourth Session adopted the decision on the “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);

Recalling also that the Director-General established a Validation Group to evaluate new data proposed for inclusion in the OPCW Central Analytical Database (OCAD) and that the Group, at its fifty-eighth meeting held on 18 and 19 September 2024 and fifty-ninth meeting held on 9 and 10 April 2025 (both in hybrid format), forwarded the combined lists of validated analytical data to the Director-General for recommendation for inclusion in the OCAD (S/2330/2024, dated 29 October 2024 and S/2399/2025, dated 2 May 2025);

Recalling further that the Director-General has forwarded to the Council for consideration at its 109th Session the Note entitled “Lists of Newly Validated Data on Scheduled Chemicals for Approval by the Executive Council for Inclusion in the OPCW Central Analytical Database” (EC-109/DG.4, dated 6 May 2025);

Bearing in mind that the Verification Division made available to States Parties, upon request, 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 to EC-109/DG.4 and that, in accordance with the mechanism for updating the OCAD referred to in the first paragraph above, any State Party with concerns about the proposed inclusion in the OCAD of any data contained in the Annex to EC-109/DG.4 had the opportunity to make their concerns known to the Technical Secretariat (the Secretariat) before the 109th Session of the Council; and

Bearing in mind also that no concerns in relation to the proposed inclusion in the OCAD of any of the data listed in the Annex to EC-109/DG.4 and reproduced in the Annex hereto were communicated to the Secretariat before the 109th Session of the Council;

Hereby:

Approves the inclusion in the OCAD of the lists of newly validated data annexed hereto.

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



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-(Dioctylamino)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-propylphosphoramidocyanide	1.A.02	1	1670	
04-4-0469	2-Methylcyclopentyl N-ethyl-N-propylphosphoramidocyanide	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-(Diocetylamino)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	
07-4-3488	N-(1-(Dibutylamino)ethylidene)-P-decylphosphonamidic fluoride	1.A.13	2	2695	

OPCW Code	Chemical Name	Schedule	Column	RI(a)	RI(b)
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	
29-4-0031	O-Ethyl S-propyl methylphosphonothiolate	2.B.04	1	1266	

OPCW Code	Chemical Name	Schedule	Column	RI(a)	RI(b)
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)phosphoramidofluoridate	1.A.14
29-7-0010	Methyl N-(1-(dipropylamino)butylidene)phosphoramidofluoridate	1.A.14
29-7-0011	Methyl N-(1-(dibutylamino)butylidene)phosphoramidofluoridate	1.A.14
29-7-0013	Ethyl N-(1-(methylpropylamino)ethylidene)phosphoramidofluoridate	1.A.14
29-7-0014	Ethyl N-(1-(diisopropylamino)ethylidene)phosphoramidofluoridate	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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