



Seventy-Third Session
16 – 19 July 2013

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DECISION

LISTS OF NEW VALIDATED DATA FOR INCLUSION IN THE OPCW CENTRAL ANALYTICAL DATABASE

The Executive Council,

Recalling that, at its Second Session, the Conference of the States Parties, acting upon the recommendation of the Executive Council (hereinafter “the Council”) at its Fourth Session, adopted the decision entitled “Proposed Mechanism for Updating the OPCW Central Analytical Database” (EC-IV/DEC.2, dated 5 September 1997) (subparagraph 11.2(c) of C-II/8, dated 5 December 1997);

Also recalling that the Director-General established a Validation Group (hereinafter “the Group”) to evaluate new data proposed for inclusion in that database, and that, at its Thirty-Seventh Meeting, on 12 and 13 March 2013, the Group forwarded the lists of validated analytical data to the Director-General for appropriate action (S/1097/2013, dated 28 May 2013);

Recalling further that the Director-General has forwarded to the Council for consideration at its Seventy-Third Session the Note, “Lists of New Validated Data of Scheduled Chemicals for Approval by the Executive Council for Inclusion in the OPCW Central Analytical Database” (EC-73/DG.3, dated 11 June 2013);

Bearing in mind that the Verification Division made available to States Parties, upon request, copies of the new validated mass spectrometry (MS) and gas chromatography (retention index) (GC(RI)) data listed in the annex to the above-mentioned Note (EC-73/DG.3) and that, in accordance with the mechanism referred to in the first paragraph above, any State Party that had concerns about the proposed inclusion in the OPCW Central Analytical Database (OCAD) of any data contained in the annex to that Note had the opportunity to make their concerns known to the Technical Secretariat (hereinafter “the Secretariat”) before the Seventy-Third Session of the Council; and

Also bearing in mind that no concerns in relation to the proposed inclusion in the OCAD of any of the data, which is annexed hereto and which is listed in the annex to the above-mentioned Note, were communicated to the Secretariat before the Seventy-Third Session of the Council;

Hereby:

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

Annex (English Only): Lists of New Validated Data



Annex

LISTS OF NEW VALIDATED DATA OF SCHEDULED CHEMICALS

TABLE 1: LIST OF APPROVED MS DATA OF SCHEDULED CHEMICALS

OPCW Code	Chemical Name	Schedule
07-2-3249ar	sec-Butyl 2-dimethylaminoethyl ethylphosphonate	2.B.04
07-2-3265	Methyl 2-dimethylaminoethyl propylphosphonate	2.B.04
07-2-3266	Methyl 2-diethylaminoethyl propylphosphonate	2.B.04
07-2-3267	Methyl 2-dipropylaminoethyl propylphosphonate	2.B.04
07-2-3268	Methyl 2-diisopropylaminoethyl propylphosphonate	2.B.04
07-2-3269	Ethyl 2-dimethylaminoethyl propylphosphonate	2.B.04
07-2-3270	Ethyl 2-diethylaminoethyl propylphosphonate	2.B.04
07-2-3271	Ethyl 2-dipropylaminoethyl propylphosphonate	2.B.04
07-2-3272	Ethyl 2-diisopropylaminoethyl propylphosphonate	2.B.04
07-2-3273	Propyl 2-dimethylaminoethyl propylphosphonate	2.B.04
07-2-3274	Propyl 2-diethylaminoethyl propylphosphonate	2.B.04
07-2-3275	Propyl 2-dipropylaminoethyl propylphosphonate	2.B.04
07-2-3276	Propyl 2-diisopropylaminoethyl propylphosphonate	2.B.04
07-2-3277	Isopropyl 2-dimethylaminoethyl propylphosphonate	2.B.04
07-2-3278	Isopropyl 2-diethylaminoethyl propylphosphonate	2.B.04
07-2-3279	Isopropyl 2-dipropylaminoethyl propylphosphonate	2.B.04
07-2-3280	Isopropyl 2-diisopropylaminoethyl propylphosphonate	2.B.04
07-2-3281	Butyl 2-dimethylaminoethyl propylphosphonate	2.B.04
07-2-3282	Butyl 2-diethylaminoethyl propylphosphonate	2.B.04
07-2-3283	Butyl 2-dipropylaminoethyl propylphosphonate	2.B.04
07-2-3284	Butyl 2-diisopropylaminoethyl propylphosphonate	2.B.04
07-2-3285a	sec-Butyl 2-dimethylaminoethyl propylphosphonate	2.B.04
07-2-3285b	sec-Butyl 2-dimethylaminoethyl propylphosphonate	2.B.04
07-2-3286a	sec-Butyl 2-diethylaminoethyl propylphosphonate	2.B.04
07-2-3286b	sec-Butyl 2-diethylaminoethyl propylphosphonate	2.B.04
07-2-3287a	sec-Butyl 2-dipropylaminoethyl propylphosphonate	2.B.04
07-2-3287b	sec-Butyl 2-dipropylaminoethyl propylphosphonate	2.B.04
07-2-3288a	sec-Butyl 2-diisopropylaminoethyl propylphosphonate	2.B.04
07-2-3288b	sec-Butyl 2-diisopropylaminoethyl propylphosphonate	2.B.04
07-2-3289	Isobutyl 2-dimethylaminoethyl propylphosphonate	2.B.04
07-2-3290	Isobutyl 2-diethylaminoethyl propylphosphonate	2.B.04
07-2-3291	Isobutyl 2-dipropylaminoethyl propylphosphonate	2.B.04
07-2-3292	Isobutyl 2-diisopropylaminoethyl propylphosphonate	2.B.04
07-2-3293	Cyclohexyl 2-dimethylaminoethyl propylphosphonate	2.B.04
07-2-3294	Cyclohexyl 2-diethylaminoethyl propylphosphonate	2.B.04
07-2-3295	Cyclohexyl 2-dipropylaminoethyl propylphosphonate	2.B.04
07-2-3296	Cyclohexyl 2-diisopropylaminoethyl propylphosphonate	2.B.04
07-2-3297a	Pinacolyl 2-dimethylaminoethyl propylphosphonate	2.B.04
07-2-3297b	Pinacolyl 2-dimethylaminoethyl propylphosphonate	2.B.04
07-2-3298a	Pinacolyl 2-diethylaminoethyl propylphosphonate	2.B.04
07-2-3298b	Pinacolyl 2-diethylaminoethyl propylphosphonate	2.B.04

OPCW Code	Chemical Name	Schedule
07-2-3299a	Pinacolyl 2-dipropylaminoethyl propylphosphonate	2.B.04
07-2-3299b	Pinacolyl 2-dipropylaminoethyl propylphosphonate	2.B.04
07-2-3300a	Pinacolyl 2-diisopropylaminoethyl propylphosphonate	2.B.04
07-2-3300b	Pinacolyl 2-diisopropylaminoethyl propylphosphonate	2.B.04
07-2-3301	Methyl 2-dimethylaminoethyl isopropylphosphonate	2.B.04
07-2-3302	Methyl 2-diethylaminoethyl isopropylphosphonate	2.B.04
07-2-3303	Methyl 2-dipropylaminoethyl isopropylphosphonate	2.B.04
07-2-3304	Methyl 2-diisopropylaminoethyl isopropylphosphonate	2.B.04
07-2-3305	Ethyl 2-dimethylaminoethyl isopropylphosphonate	2.B.04
07-2-3306	Ethyl 2-diethylaminoethyl isopropylphosphonate	2.B.04
07-2-3307	Ethyl 2-dipropylaminoethyl isopropylphosphonate	2.B.04
07-2-3308	Ethyl 2-diisopropylaminoethyl isopropylphosphonate	2.B.04
07-2-3309	Propyl 2-dimethylaminoethyl isopropylphosphonate	2.B.04
07-2-3310	Propyl 2-diethylaminoethyl isopropylphosphonate	2.B.04
07-2-3311	Propyl 2-dipropylaminoethyl isopropylphosphonate	2.B.04
07-2-3312	Propyl 2-diisopropylaminoethyl isopropylphosphonate	2.B.04
07-2-3313	Isopropyl 2-dimethylaminoethyl isopropylphosphonate	2.B.04
07-2-3314	Isopropyl 2-diethylaminoethyl isopropylphosphonate	2.B.04
07-2-3315	Isopropyl 2-dipropylaminoethyl isopropylphosphonate	2.B.04
07-2-3316	Isopropyl 2-diisopropylaminoethyl isopropylphosphonate	2.B.04
07-2-3317	Butyl 2-dimethylaminoethyl isopropylphosphonate	2.B.04
07-2-3318	Butyl 2-diethylaminoethyl isopropylphosphonate	2.B.04
07-2-3319	Butyl 2-dipropylaminoethyl isopropylphosphonate	2.B.04
07-2-3321a	sec-Butyl 2-dimethylaminoethyl isopropylphosphonate	2.B.04
07-2-3321b	sec-Butyl 2-dimethylaminoethyl isopropylphosphonate	2.B.04
07-2-3322a	sec-Butyl 2-diethylaminoethyl isopropylphosphonate	2.B.04
07-2-3322b	sec-Butyl 2-diethylaminoethyl isopropylphosphonate	2.B.04
07-2-3323a	sec-Butyl 2-dipropylaminoethyl isopropylphosphonate	2.B.04
07-2-3323b	sec-Butyl 2-dipropylaminoethyl isopropylphosphonate	2.B.04
07-2-3324a	sec-Butyl 2-diisopropylaminoethyl isopropylphosphonate	2.B.04
07-2-3324b	sec-Butyl 2-diisopropylaminoethyl isopropylphosphonate	2.B.04
07-2-3325	Isobutyl 2-dimethylaminoethyl isopropylphosphonate	2.B.04
07-2-3326	Isobutyl 2-diethylaminoethyl isopropylphosphonate	2.B.04
07-2-3327	Isobutyl 2-dipropylaminoethyl isopropylphosphonate	2.B.04
07-2-3328	Isobutyl 2-diisopropylaminoethyl isopropylphosphonate	2.B.04
07-2-3329	Cyclohexyl 2-dimethylaminoethyl isopropylphosphonate	2.B.04
07-2-3330	Cyclohexyl 2-diethylaminoethyl isopropylphosphonate	2.B.04
07-2-3331	Cyclohexyl 2-dipropylaminoethyl isopropylphosphonate	2.B.04
07-2-3332	Cyclohexyl 2-diisopropylaminoethyl isopropylphosphonate	2.B.04
07-2-3333a	Pinacolyl 2-dimethylaminoethyl isopropylphosphonate	2.B.04
07-2-3333b	Pinacolyl 2-dimethylaminoethyl isopropylphosphonate	2.B.04
07-2-3334a	Pinacolyl 2-diethylaminoethyl isopropylphosphonate	2.B.04
07-2-3334b	Pinacolyl 2-diethylaminoethyl isopropylphosphonate	2.B.04
07-2-3335a	Pinacolyl 2-dipropylaminoethyl isopropylphosphonate	2.B.04
07-2-3335b	Pinacolyl 2-dipropylaminoethyl isopropylphosphonate	2.B.04
07-2-3336a	Pinacolyl 2-diisopropylaminoethyl isopropylphosphonate	2.B.04

OPCW Code	Chemical Name	Schedule
07-2-3336b	Pinacolyl 2-diisopropylaminoethyl isopropylphosphonate	2.B.04
28-2-0037	N,N-Dimethyl-P-methylphosphonamidic chloride	2.B.04
28-2-0038	Methyl-d3 N,N-dimethyl-P-methylphosphonamidate	2.B.04
28-2-0040	Ethyl N,N-dimethyl-P-methylphosphonamidate	2.B.04
28-2-0041	Propyl N,N-dimethyl-P-methylphosphonamidate	2.B.04
28-2-0042	Isopropyl N,N-dimethyl-P-methylphosphonamidate	2.B.04
28-2-0044	Pentyl N,N-dimethyl-P-methylphosphonamidate	2.B.04
28-2-0045	Hexyl N,N-dimethyl-P-methylphosphonamidate	2.B.04
28-2-0046	Heptyl N,N-dimethyl-P-methylphosphonamidate	2.B.04
28-2-0047	sec-Butyl N,N-dimethyl-P-methylphosphonamidate	2.B.04
28-2-0048	1-Methylbutyl N,N-dimethyl-P-methylphosphonamidate	2.B.04
28-2-0049	2-Methylbutyl N,N-dimethyl-P-methylphosphonamidate	2.B.04
28-2-0051	S-Ethyl N,N-dimethyl-P-methylphosphonamidithiolate	2.B.04
28-2-0052	S-Propyl N,N-dimethyl-P-methylphosphonamidithiolate	2.B.04
28-2-0053	S-Butyl N,N-dimethyl-P-methylphosphonamidithiolate	2.B.04
28-2-0054	S-Pentyl N,N-dimethyl-P-methylphosphonamidithiolate	2.B.04
28-2-0055	N,N-Dimethyl-P-ethylphosphonamidic chloride	2.B.04
28-2-0056	Methyl N,N-dimethyl-P-ethylphosphonamidate	2.B.04
28-2-0057	Methyl-d3 N,N-dimethyl-P-ethylphosphonamidate	2.B.04
28-2-0058	Ethyl N,N-dimethyl-P-ethylphosphonamidate	2.B.04
28-2-0059	Propyl N,N-dimethyl-P-ethylphosphonamidate	2.B.04
28-2-0060	Isopropyl N,N-dimethyl-P-ethylphosphonamidate	2.B.04
28-2-0061	Butyl N,N-dimethyl-P-ethylphosphonamidate	2.B.04
28-2-0062	Pentyl N,N-dimethyl-P-ethylphosphonamidate	2.B.04
28-2-0063	Hexyl N,N-dimethyl-P-ethylphosphonamidate	2.B.04
28-2-0064	Heptyl N,N-dimethyl-P-ethylphosphonamidate	2.B.04
28-2-0065	S-Ethyl N,N-dimethyl-P-ethylphosphonamidithiolate	2.B.04
28-2-0066	S-Propyl N,N-dimethyl-P-ethylphosphonamidithiolate	2.B.04
28-2-0067	S-Butyl N,N-dimethyl-P-ethylphosphonamidithiolate	2.B.04
28-2-0068	S-Pentyl N,N-dimethyl-P-ethylphosphonamidithiolate	2.B.04
28-2-0069	N,N-Dimethyl-P-propylphosphonamidic chloride	2.B.04
28-2-0070	Methyl N,N-dimethyl-P-propylphosphonamidate	2.B.04
28-2-0071	Ethyl N,N-dimethyl-P-propylphosphonamidate	2.B.04
28-2-0072	Propyl N,N-dimethyl-P-propylphosphonamidate	2.B.04
28-2-0073	Butyl N,N-dimethyl-P-propylphosphonamidate	2.B.04
28-2-0074	Pentyl N,N-dimethyl-P-propylphosphonamidate	2.B.04
28-2-0075	S-Ethyl N,N-dimethyl-P-propylphosphonamidithiolate	2.B.04
28-2-0076	S-Propyl N,N-dimethyl-P-propylphosphonamidithiolate	2.B.04
28-2-0077	S-Butyl N,N-dimethyl-P-propylphosphonamidithiolate	2.B.04
28-2-0078	N,N,N',N'-Tetramethyl-P-methylphosphonic diamide	2.B.04
28-2-0079	N,N,N',N'-Tetramethyl-P-ethylphosphonic diamide	2.B.04
28-2-0080	N,N,N',N'-Tetramethyl-P-propylphosphonic diamide	2.B.04
28-2-0081a	N,N,N',N'-Tetramethyl-P,P'-dimethylpyrophosphonic diamide	2.B.04
28-2-0081b	N,N,N',N'-Tetramethyl-P,P'-dimethylpyrophosphonic diamide	2.B.04
28-2-0083b	N,N,N',N'-Tetramethyl-P,P'-dipropylpyrophosphonic diamide	2.B.04
28-2-0085	O'-Butyl N,N-dimethyl-P,P'-dimethyldiphosphono-P-amidate	2.B.04

OPCW Code	Chemical Name	Schedule
28-2-0086	O'-2-Methylbutyl N,N-dimethyl-P,P'-dimethyldiphosphono-P-amidate	2.B.04
28-2-0087	O'-Butyl N,N-dimethyl-P,P'-diethyldiphosphono-P-amidate	2.B.04
28-2-0088	2-Methylbutyl N,N-dimethylphosphoramidocyanidate	1.A.02
28-2-0089	3-Methylbutyl N,N-dimethylphosphoramidocyanidate	1.A.02
28-2-0090	1-Ethylpropyl N,N-dimethylphosphoramidocyanidate	1.A.02
28-2-0091a	1,2-Dimethylpropyl N,N-dimethylphosphoramidocyanidate	1.A.02
28-2-0091b	1,2-Dimethylpropyl N,N-dimethylphosphoramidocyanidate	1.A.02
28-2-0092	2,2-Dimethylpropyl N,N-dimethylphosphoramidocyanidate	1.A.02
28-2-0093	3-Methylpentyl N,N-dimethylphosphoramidocyanidate	1.A.02
28-2-0094	2-Ethylbutyl N,N-dimethylphosphoramidocyanidate	1.A.02
28-2-0095	4-Methylpentyl N,N-dimethylphosphoramidocyanidate	1.A.02
28-2-0096a	1,2-Dimethylbutyl N,N-dimethylphosphoramidocyanidate	1.A.02
28-2-0096b	1,2-Dimethylbutyl N,N-dimethylphosphoramidocyanidate	1.A.02
28-2-0096d	1,2-Dimethylbutyl N,N-dimethylphosphoramidocyanidate	1.A.02
28-2-0097	1-Ethylbutyl N,N-dimethylphosphoramidocyanidate	1.A.02
29-2-0007br	Methyl 1-methylbut-2-enyl methylphosphonate	2.B.04

TABLE 2: LIST OF APPROVED GC(RI) DATA

Note: A “1” under the “Column” heading of 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)	RI(c)	RI(d)
07-4-3028	Methyl 2-dimethylaminoethyl propylphosphonate	2.B.04	2	1373			
07-4-3029	Methyl 2-diethylaminoethyl propylphosphonate	2.B.04	2	1526			
07-4-3030	Methyl 2-dipropylaminoethyl propylphosphonate	2.B.04	2	1675			
07-4-3031	Methyl 2-diisopropylaminoethyl propylphosphonate	2.B.04	2	1652			
07-4-3032	Ethyl 2-dimethylaminoethyl propylphosphonate	2.B.04	2	1425			
07-4-3033	Ethyl 2-diethylaminoethyl propylphosphonate	2.B.04	2	1575			
07-4-3034	Ethyl 2-dipropylaminoethyl propylphosphonate	2.B.04	2	1721			
07-4-3035	Ethyl 2-diisopropylaminoethyl propylphosphonate	2.B.04	2	1697			
07-4-3036	Propyl 2-dimethylaminoethyl propylphosphonate	2.B.04	2	1511			
07-4-3037	Propyl 2-diethylaminoethyl propylphosphonate	2.B.04	2	1659			
07-4-3038	Propyl 2-dipropylaminoethyl propylphosphonate	2.B.04	2	1803			
07-4-3039	Propyl 2-diisopropylaminoethyl propylphosphonate	2.B.04	2	1781			
07-4-3040	Isopropyl 2-dimethylaminoethyl propylphosphonate	2.B.04	2	1442			
07-4-3041	Isopropyl 2-diethylaminoethyl propylphosphonate	2.B.04	2	1591			
07-4-3042	Isopropyl 2-dipropylaminoethyl propylphosphonate	2.B.04	2	1736			
07-4-3043	Isopropyl 2-diisopropylaminoethyl propylphosphonate	2.B.04	2	1712			
07-4-3044	Butyl 2-dimethylaminoethyl propylphosphonate	2.B.04	2	1601			
07-4-3045	Butyl 2-diethylaminoethyl propylphosphonate	2.B.04	2	1748			
07-4-3046	Butyl 2-dipropylaminoethyl propylphosphonate	2.B.04	2	1890			
07-4-3047	Butyl 2-diisopropylaminoethyl propylphosphonate	2.B.04	2	1868			
07-4-3048	sec-Butyl 2-dimethylaminoethyl propylphosphonate	2.B.04	2	1529	1535		
07-4-3049	sec-Butyl 2-diethylaminoethyl propylphosphonate	2.B.04	2	1678	1684		
07-4-3050	sec-Butyl 2-dipropylaminoethyl propylphosphonate	2.B.04	2	1821	1827		
07-4-3051	sec-Butyl 2-diisopropylaminoethyl propylphosphonate	2.B.04	2	1796	1804		
07-4-3052	Isobutyl 2-dimethylaminoethyl propylphosphonate	2.B.04	2	1557			
07-4-3053	Isobutyl 2-diethylaminoethyl propylphosphonate	2.B.04	2	1703			
07-4-3054	Isobutyl 2-dipropylaminoethyl propylphosphonate	2.B.04	2	1846			

OPCW Code	Chemical Name	Schedule	Column	RI(a)	RI(b)	RI(c)	RI(d)
07-4-3055	Isobutyl 2-diisopropylaminoethyl propylphosphonate	2.B.04	2	1824			
07-4-3056	Cyclohexyl 2-dimethylaminoethyl propylphosphonate	2.B.04	2	1842			
07-4-3057	Cyclohexyl 2-diethylaminoethyl propylphosphonate	2.B.04	2	1991			
07-4-3058	Cyclohexyl 2-dipropylaminoethyl propylphosphonate	2.B.04	2	2137			
07-4-3059	Cyclohexyl 2-diisopropylaminoethyl propylphosphonate	2.B.04	2	2114			
07-4-3060	Pinacoly 2-dimethylaminoethyl propylphosphonate	2.B.04	2	1637	1651		
07-4-3061	Pinacoly 2-diethylaminoethyl propylphosphonate	2.B.04	2	1787	1800		
07-4-3062	Pinacoly 2-dipropylaminoethyl propylphosphonate	2.B.04	2	1929	1943		
07-4-3063	Pinacoly 2-diisopropylaminoethyl propylphosphonate	2.B.04	2	1902	1919		
07-4-3064	Methyl 2-dimethylaminoethyl isopropylphosphonate	2.B.04	2	1330			
07-4-3065	Methyl 2-diethylaminoethyl isopropylphosphonate	2.B.04	2	1483			
07-4-3066	Methyl 2-dipropylaminoethyl isopropylphosphonate	2.B.04	2	1633			
07-4-3067	Methyl 2-diisopropylaminoethyl isopropylphosphonate	2.B.04	2	1607			
07-4-3068	Ethyl 2-dimethylaminoethyl isopropylphosphonate	2.B.04	2	1381			
07-4-3069	Ethyl 2-diethylaminoethyl isopropylphosphonate	2.B.04	2	1532			
07-4-3070	Ethyl 2-dipropylaminoethyl isopropylphosphonate	2.B.04	2	1679			
07-4-3071	Ethyl 2-diisopropylaminoethyl isopropylphosphonate	2.B.04	2	1654			
07-4-3072	Propyl 2-dimethylaminoethyl isopropylphosphonate	2.B.04	2	1468			
07-4-3073	Propyl 2-diethylaminoethyl isopropylphosphonate	2.B.04	2	1617			
07-4-3074	Propyl 2-dipropylaminoethyl isopropylphosphonate	2.B.04	2	1762			
07-4-3075	Propyl 2-diisopropylaminoethyl isopropylphosphonate	2.B.04	2	1737			
07-4-3076	Isopropyl 2-dimethylaminoethyl isopropylphosphonate	2.B.04	2	1399			
07-4-3077	Isopropyl 2-diethylaminoethyl isopropylphosphonate	2.B.04	2	1550			
07-4-3078	Isopropyl 2-dipropylaminoethyl isopropylphosphonate	2.B.04	2	1695			
07-4-3079	Isopropyl 2-diisopropylaminoethyl isopropylphosphonate	2.B.04	2	1670			
07-4-3080	Butyl 2-dimethylaminoethyl isopropylphosphonate	2.B.04	2	1557			
07-4-3081	Butyl 2-diethylaminoethyl isopropylphosphonate	2.B.04	2	1704			
07-4-3082	Butyl 2-dipropylaminoethyl isopropylphosphonate	2.B.04	2	1848			
07-4-3083	Butyl 2-diisopropylaminoethyl isopropylphosphonate	2.B.04	2	1823			
07-4-3084	sec-Butyl 2-dimethylaminoethyl isopropylphosphonate	2.B.04	2	1487	1495		

OPCW Code	Chemical Name	Schedule	Column	RI(a)	RI(b)	RI(c)	RI(d)
07-4-3085	sec-Butyl 2-diethylaminoethyl isopropylphosphonate	2.B.04	2	1637	1645		
07-4-3086	sec-Butyl 2-dipropylaminoethyl isopropylphosphonate	2.B.04	2	1781	1790		
07-4-3087	sec-Butyl 2-diisopropylaminoethyl isopropylphosphonate	2.B.04	2	1754	1764		
07-4-3088	Isobutyl 2-dimethylaminoethyl isopropylphosphonate	2.B.04	2	1514			
07-4-3089	Isobutyl 2-diethylaminoethyl isopropylphosphonate	2.B.04	2	1662			
07-4-3090	Isobutyl 2-dipropylaminoethyl isopropylphosphonate	2.B.04	2	1805			
07-4-3091	Isobutyl 2-diisopropylaminoethyl isopropylphosphonate	2.B.04	2	1779			
07-4-3092	Cyclohexyl 2-dimethylaminoethyl isopropylphosphonate	2.B.04	2	1795			
07-4-3093	Cyclohexyl 2-diethylaminoethyl isopropylphosphonate	2.B.04	2	1947			
07-4-3094	Cyclohexyl 2-dipropylaminoethyl isopropylphosphonate	2.B.04	2	2093			
07-4-3095	Cyclohexyl 2-diisopropylaminoethyl isopropylphosphonate	2.B.04	2	2068			
07-4-3096	Pinacoly 2-dimethylaminoethyl isopropylphosphonate	2.B.04	2	1595	1613		
07-4-3097	Pinacoly 2-diethylaminoethyl isopropylphosphonate	2.B.04	2	1749	1766		
07-4-3098	Pinacoly 2-dipropylaminoethyl isopropylphosphonate	2.B.04	2	1892	1910		
07-4-3099	Pinacoly 2-diisopropylaminoethyl isopropylphosphonate	2.B.04	2	1862	1883		
28-4-0040	N,N-Dimethyl-P-methylphosphonamidic chloride	2.B.04	1	1096			
28-4-0041	Methyl-d3 N,N-dimethyl-P-methylphosphonamidate	2.B.04	1	1024			
28-4-0043	Ethyl N,N-dimethyl-P-methylphosphonamidate	2.B.04	1	1096			
28-4-0044	Propyl N,N-dimethyl-P-methylphosphonamidate	2.B.04	1	1175			
28-4-0045	Isopropyl N,N-dimethyl-P-methylphosphonamidate	2.B.04	1	1120			
28-4-0047	Pentyl N,N-dimethyl-P-methylphosphonamidate	2.B.04	1	1366			
28-4-0048	Hexyl N,N-dimethyl-P-methylphosphonamidate	2.B.04	1	1469			
28-4-0049	Heptyl N,N-dimethyl-P-methylphosphonamidate	2.B.04	1	1569			
28-4-0050	sec-Butyl N,N-dimethyl-P-methylphosphonamidate	2.B.04	1	1205			
28-4-0051	1-Methylbutyl N,N-dimethyl-P-methylphosphonamidate	2.B.04	1	1288			
28-4-0052	2-Methylbutyl N,N-dimethyl-P-methylphosphonamidate	2.B.04	1	1327			
28-4-0054	S-Ethyl N,N-dimethyl-P-methylphosphonamidothiolate	2.B.04	1	1291			
28-4-0055	S-Propyl N,N-dimethyl-P-methylphosphonamidothiolate	2.B.04	1	1377			
28-4-0056	S-Butyl N,N-dimethyl-P-methylphosphonamidothiolate	2.B.04	1	1479			
28-4-0057	S-Pentyl N,N-dimethyl-P-methylphosphonamidothiolate	2.B.04	1	1583			

OPCW Code	Chemical Name	Schedule	Column	RI(a)	RI(b)	RI(c)	RI(d)
28-4-0058	N,N-Dimethyl-P-ethylphosphonamidic chloride	2.B.04	1	1165			
28-4-0059	Methyl N,N-dimethyl-P-ethylphosphonamidate	2.B.04	1	1118			
28-4-0060	Methyl-d3 N,N-dimethyl-P-ethylphosphonamidate	2.B.04	1	1106			
28-4-0061	Ethyl N,N-dimethyl-P-ethylphosphonamidate	2.B.04	1	1159			
28-4-0062	Propyl N,N-dimethyl-P-ethylphosphonamidate	2.B.04	1	1246			
28-4-0063	Isopropyl N,N-dimethyl-P-ethylphosphonamidate	2.B.04	1	1186			
28-4-0064	Butyl N,N-dimethyl-P-ethylphosphonamidate	2.B.04	1	1338			
28-4-0065	Pentyl N,N-dimethyl-P-ethylphosphonamidate	2.B.04	1	1440			
28-4-0066	Hexyl N,N-dimethyl-P-ethylphosphonamidate	2.B.04	1	1540			
28-4-0067	Heptyl N,N-dimethyl-P-ethylphosphonamidate	2.B.04	1	1641			
28-4-0068	S-Ethyl N,N-dimethyl-P-ethylphosphonamidodithiolate	2.B.04	1	1360			
28-4-0069	S-Propyl N,N-dimethyl-P-ethylphosphonamidodithiolate	2.B.04	1	1443			
28-4-0070	S-Butyl N,N-dimethyl-P-ethylphosphonamidodithiolate	2.B.04	1	1548			
28-4-0071	S-Pentyl N,N-dimethyl-P-ethylphosphonamidodithiolate	2.B.04	1	1642			
28-4-0072	N,N-Dimethyl-P-propylphosphonamidic chloride	2.B.04	1	1243			
28-4-0073	Methyl N,N-dimethyl-P-propylphosphonamidate	2.B.04	1	1185			
28-4-0074	Ethyl N,N-dimethyl-P-propylphosphonamidate	2.B.04	1	1237			
28-4-0075	Propyl N,N-dimethyl-P-propylphosphonamidate	2.B.04	1	1328			
28-4-0076	Butyl N,N-dimethyl-P-propylphosphonamidate	2.B.04	1	1414			
28-4-0077	Pentyl N,N-dimethyl-P-propylphosphonamidate	2.B.04	1	1514			
28-4-0078	S-Ethyl N,N-dimethyl-P-propylphosphonamidodithiolate	2.B.04	1	1431			
28-4-0079	S-Propyl N,N-dimethyl-P-propylphosphonamidodithiolate	2.B.04	1	1520			
28-4-0080	S-Butyl N,N-dimethyl-P-propylphosphonamidodithiolate	2.B.04	1	1618			
28-4-0081	N,N,N',N'-Tetramethyl-P-methylphosphonic diamide	2.B.04	1	1205			
28-4-0082	N,N,N',N'-Tetramethyl-P-ethylphosphonic diamide	2.B.04	1	1277			
28-4-0083	N,N,N',N'-Tetramethyl-P-propylphosphonic diamide	2.B.04	1	1356			
28-4-0084	N,N,N',N'-Tetramethyl-P,P'-dimethylpyrophosphonic diamide	2.B.04	1	1535	1551		
28-4-0086	N,N,N',N'-Tetramethyl-P,P'-dipropylpyrophosphonic diamide	2.B.04	1	1803	1822		
28-4-0088	O'-Butyl N,N-dimethyl-P,P'-dimethyldiphosphono-P-amidate	2.B.04	1	1675			

OPCW Code	Chemical Name	Schedule	Column	RI(a)	RI(b)	RI(c)	RI(d)
28-4-0089	O'-2-Methylbutyl N,N-dimethyl-P,P'-dimethyldiphosphono-P-amidate	2.B.04	1	1729			
28-4-0090	O'-Butyl N,N-dimethyl-P,P'-diethyldiphosphono-P-amidate	2.B.04	1	1800			
28-4-0091	2-Methylbutyl N,N-dimethylphosphoramidocyanidate	1.A.02	1	1369			
28-4-0092	3-Methylbutyl N,N-dimethylphosphoramidocyanidate	1.A.02	1	1366			
28-4-0093	1-Ethylpropyl N,N-dimethylphosphoramidocyanidate	1.A.02	1	1344			
28-4-0094	1,2-Dimethylpropyl N,N-dimethylphosphoramidocyanidate	1.A.02	1	1324	1331		
28-4-0095	2,2-Dimethylpropyl N,N-dimethylphosphoramidocyanidate	1.A.02	1	1300			
28-4-0096	3-Methylpentyl N,N-dimethylphosphoramidocyanidate	1.A.02	1	1475			
28-4-0097	2-Ethylbutyl N,N-dimethylphosphoramidocyanidate	1.A.02	1	1459			
28-4-0098	4-Methylpentyl N,N-dimethylphosphoramidocyanidate	1.A.02	1	1475			
28-4-0099	1,2-Dimethylbutyl N,N-dimethylphosphoramidocyanidate	1.A.02	1	1407	1414	1418	1421
28-4-0100	1-Ethylbutyl N,N-dimethylphosphoramidocyanidate	1.A.02	1	1415			

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