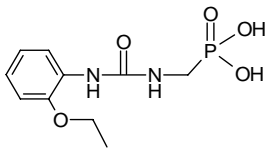
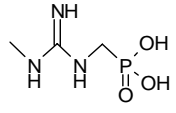
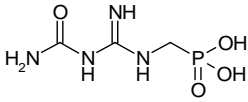
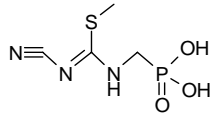
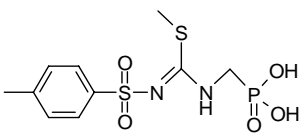
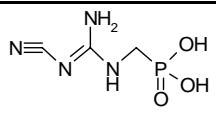
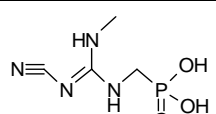
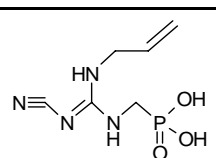
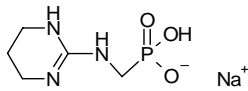
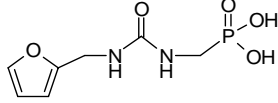
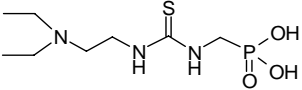
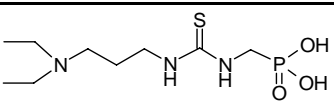
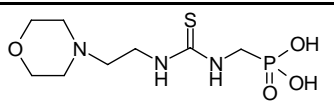
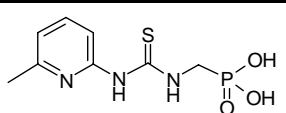
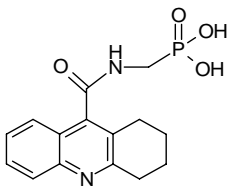
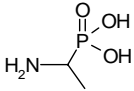
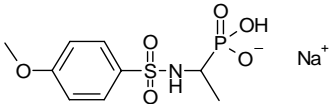
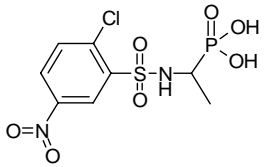
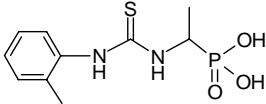
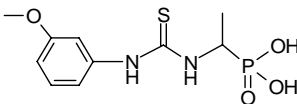
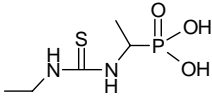
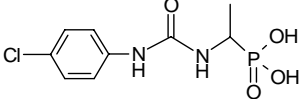
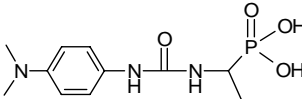
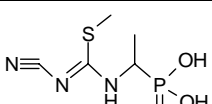
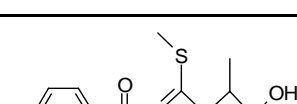
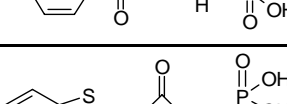
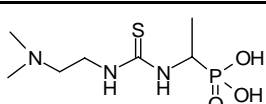
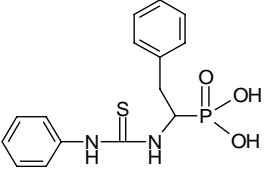
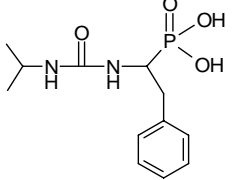
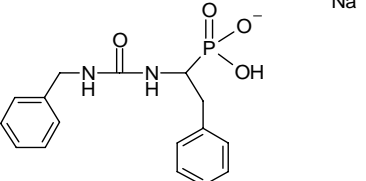
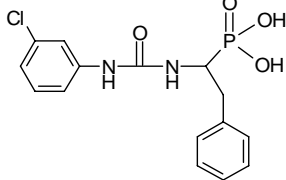
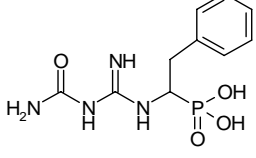
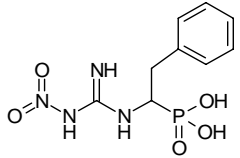
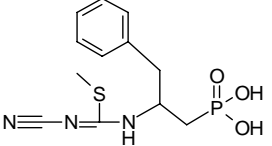
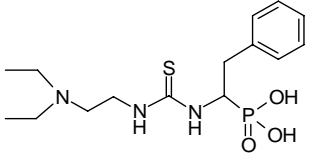
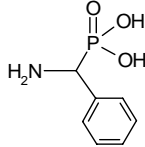


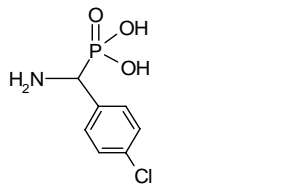
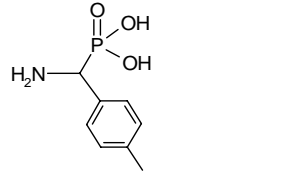
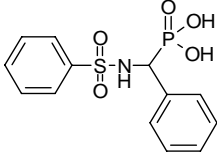
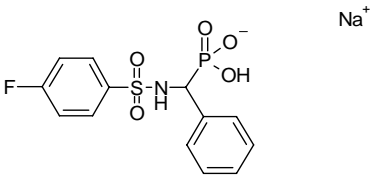
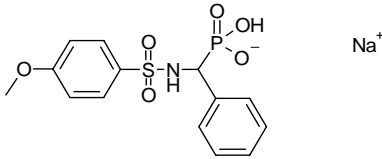
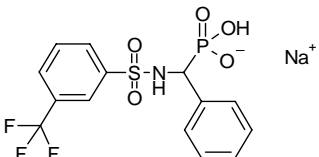
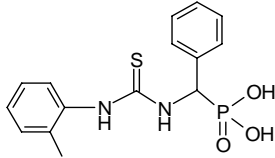
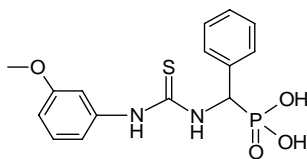
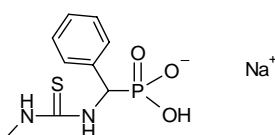
ID Number	Structure	Formula	M.W.	m.p. °C	Remarks
<b>A AMINO-PHOSPHONIC ACIDS and N-derivatives</b>					
A01-00-2953		CH6NO3P	111,04	311-313	colorless crystals
A01-23-3488		C7H8Cl2NO5PS	320,09	277-284	colorless crystals
A01-23-3489		C7H7Cl3NO5PS	354,53	245-250	colorless crystals
A01-28-3714		C10H14NO3PS2	291,33	60-65	colorless needles
A01-28-3715		C8H11N2O3PS	246,23	165-167	colorless solid
A01-28-3716		C9H13N2O3PS	260,25	54-58	colorless crystals
A01-28-3717		C8H10FN2O3PS	264,22	182-185	colorless crystals
A01-28-3718		C9H12ClN2O3PS	294,70	145-148	colorless crystals
A01-28-3719		C10H15N2O3PS	274,28	85-87	colorless crystals
A01-28-3720		C7H10N3O3PS	247,21	149-153	colorless crystals
A01-28-3871		C3H8N2NaO3PS	206,14	over 350	white solid
A01-28-3872		C5H11N2O3PS	210,19	157-162	colorless solid
A01-29-3761		C8H10ClN2O4P	264,61	175-177	colorless crystals
A01-29-3762		C8H9Cl2N2O4P	299,05	171-175	colorless crystals

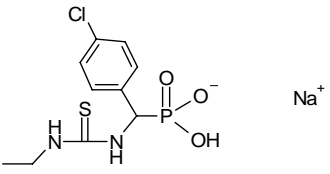
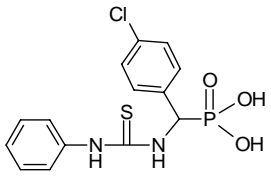
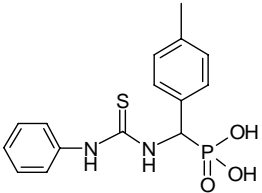
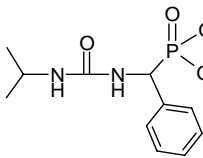
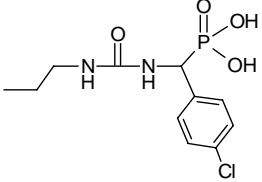
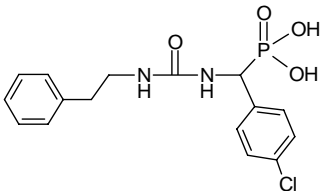
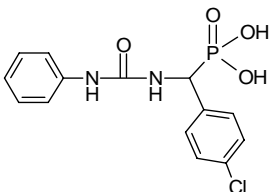
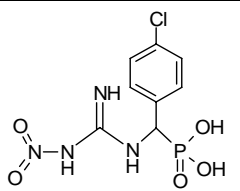
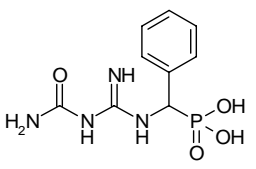
A01-29-3896		C10H15N2O5P	274,22	165-166	colorless crystals
A01-35-4009		C3H10N3O3P	167,11	227-230	colorless crystals
A01-35-4140		C3H9N4O4P	196,10	333-334	colorless crystals
A01-36-4015		C4H8N3O3PS	209,16	178-181	colorless crystals
A01-36-4016		C10H15N2O5PS2	338,34	178-180	2 isomers colorless crystals
A01-36A-5062		C3H7N4O3P	178,09	309-310	colorless crystals
A01-36A-5063		C4H9N4O3P	192,12	233-234	colorless crystals
A01-36A-5064		C6H11N4O3P	218,15	196-198	colorless crystals
A01-37-4028		C5H11N3NaO3P	215,13	298-305	colorless crystals
A01-49-4441		C7H11N2O5P	234,15	196-199	colorless crystals
A01-70-4911		C8H20N3O3PS	269,30	184-186	colorless crystals
A01-70-4912		C9H22N3O3PS	283,33	197-200	colorless crystals
A01-70-4913		C8H18N3O4PS	283,29	207-208	colorless crystals
A01-70-4914		C8H12N3O3PS	261,24	186-188	cream-colored crystals

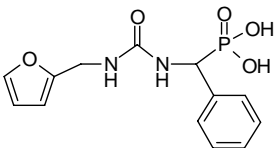
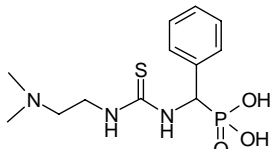
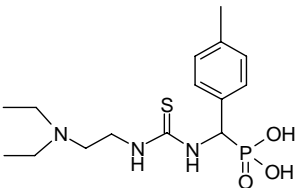
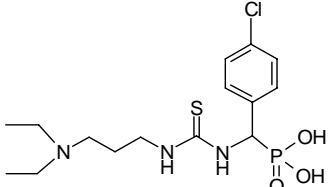
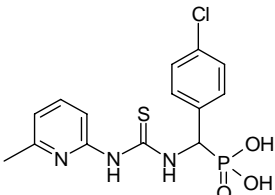
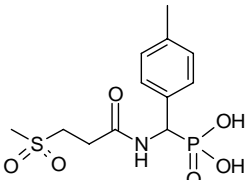
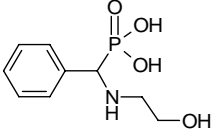
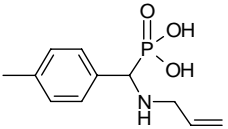
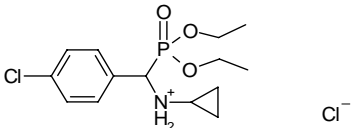
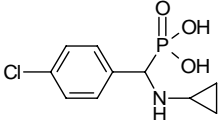
A01-74-5047		C <sub>15</sub> H <sub>17</sub> N <sub>2</sub> O <sub>4</sub> P	320,29	289-292	cream-colored crystals
A02-00-2959		C <sub>2</sub> H <sub>8</sub> NO <sub>3</sub> P	125,06	274-276	colorless crystals
A02-23-3496		C <sub>9</sub> H <sub>13</sub> NNaO <sub>6</sub> PS	317,23	over 300	colorless crystals
A02-23-3498		C <sub>8</sub> H <sub>10</sub> ClN <sub>2</sub> O <sub>7</sub> PS	344,67	193-198	colorless crystals
A02-28-3723		C <sub>10</sub> H <sub>15</sub> N <sub>2</sub> O <sub>3</sub> PS	274,28	61-64	colorless crystals
A02-28-3724		C <sub>10</sub> H <sub>15</sub> N <sub>2</sub> O <sub>4</sub> PS	290,28	64-67	colorless crystals
A02-28-3873		C <sub>5</sub> H <sub>13</sub> N <sub>2</sub> O <sub>3</sub> PS	212,21	182-190	white powder
A02-29-3764		C <sub>9</sub> H <sub>12</sub> ClN <sub>2</sub> O <sub>4</sub> P	278,63	175-179	white solid
A02-29-3898		C <sub>11</sub> H <sub>18</sub> N <sub>3</sub> O <sub>4</sub> P	287,26	229-231	colorless crystals
A02-36-4017		C <sub>5</sub> H <sub>10</sub> N <sub>3</sub> O <sub>3</sub> PS	223,19	168-171	colorless crystals
A02-36-4018		C <sub>11</sub> H <sub>17</sub> N <sub>2</sub> O <sub>5</sub> PS <sub>2</sub>	352,37	164-167	2 isomers colorless crystals
A02-49-4282		C <sub>10</sub> H <sub>12</sub> N <sub>3</sub> O <sub>4</sub> PS	301,26	199-203	colorless crystals
A02-70-4915		C <sub>7</sub> H <sub>18</sub> N <sub>3</sub> O <sub>3</sub> PS	255,28	230-232	colorless crystals

A03-00-3592		C3H10NO3P	139,09	272-274	colorless crystals
A03-23-3500		C11H16N2NaO6PS	358,29	over 300	colorless crystals
A03-23-3501		C9H12Cl2NO5PS	348,14	182-186	colorless crystals
A03-28-3730		C11H17N2O3PS	288,31	154-157	cream-colored crystals
A03-28-3732		C11H16ClN2O3PS	322,75	90-95	colorless crystals
A03-28-3733		C11H17N2O4PS	304,31	113-116	colorless crystals
A03-28-3874		C5H13N2O3PS	212,21	50-54	white powder hygroscopic
A03-29-3767		C10H15N2O4P	258,22	76-83	colorless crystals
A03-29-3899		C11H17N2O4P	272,24	142-145	white solid
A03-70-4916		C10H22N3O4PS	311,34	208-209	colorless crystals
A03-70-4917		C10H16N3O3PS	289,30	175-178	colorless crystals
A04-00-B4846		C8H12NO3P	201,16	261-264	colorless crystals

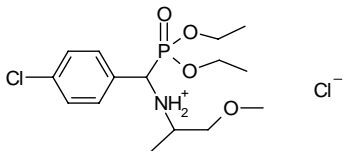
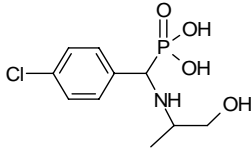
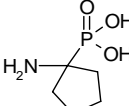
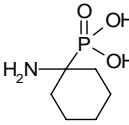
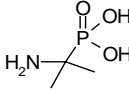
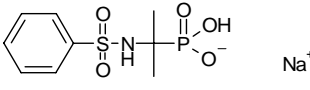
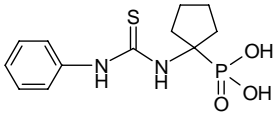
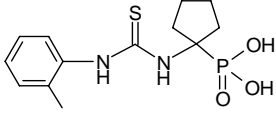
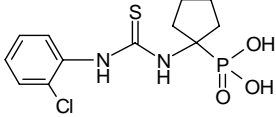
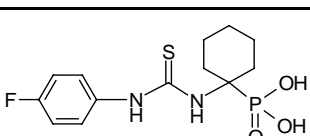
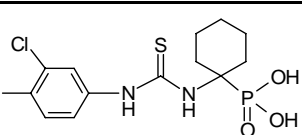
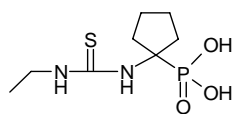
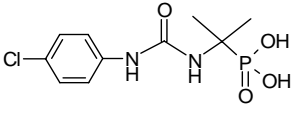
A04-28-3879		C15H17N2O3PS	336,35	141-145	colorless crystals
A04-29-3904		C12H19N2O4P	286,27	177-180	colorless crystals
A04-29-3905		C16H18N2NaO4P Na <sup>+</sup>	356,30	270-272	white solid
A04-29-3906		C15H16ClN2O4P	354,73	245-250	white solid
A04-35-4145		C10H15N4O4P	286,23	245-248	colorless crystals
A04-35-4146		C9H13N4O5P	288,20	138-142	white solid
A04-36-4151		C12H16N3O3PS	313,32	159-164	colorless crystals
A04-70-4919		C15H26N3O3PS	359,43	224-225	colorless crystals
A05-00-B3474		C7H10NO3P	187,14	297-300	colorless needles

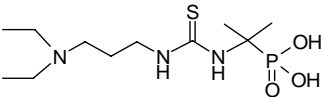
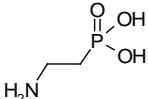
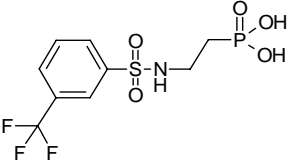
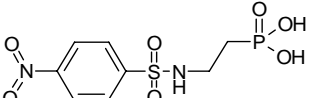
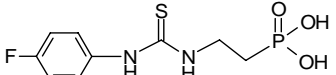
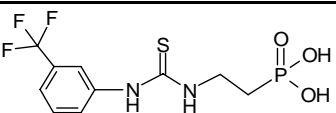
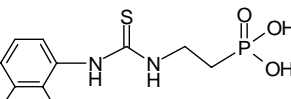
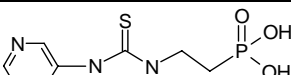
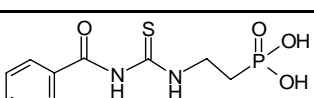
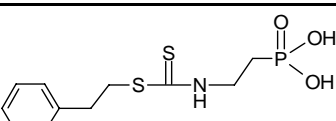
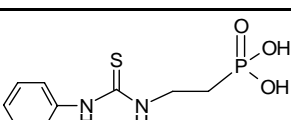
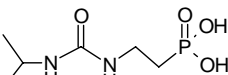
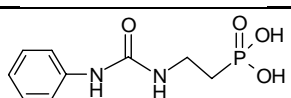
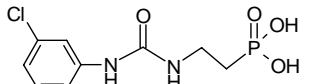
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A05-00-B5630		C8H12NO3P	201,16	282-285	colorless crystals
A05-23-3502		C13H14NO5PS	327,30	216-218	colorless crystals
A05-23-3503		C13H12FNNaO5PS	367,27	over 300	colorless crystals
A05-23-3504		C14H15NNaO6PS	379,31	284-287	colorless crystals
A05-23-3505		C14H12F3NNaO5PS	417,28	over 250	colorless crystals
A05-28-3726		C15H17N2O3PS	336,35	171-174	colorless crystals
A05-28-3727		C15H17N2O4PS	352,35	103-108	colorless crystals
A05-28-3875		C9H12N2NaO3PS	282,24	over 350	white powder

A05-28-3876		C10H13ClN2NaO3PS	330,71	271-273	white powder
A05-28-3877		C14H14ClN2O3PS	356,77	162-164	colorless crystals
A05-28-4867		C15H17N2O3PS	336,35	140-144	colorless crystals
A05-29-3900		C11H17N2O4P	272,24	95-99	white solid
A05-29-3901		C11H16ClN2O4P	306,69	101-105	colorless crystals
A05-29-3902		C16H18ClN2O4P	368,76	81-85	colorless crystals
A05-29-3903		C14H14ClN2O4P	340,71	160-162	white solid
A05-35-4011		C8H10ClN4O5P	308,62	228-232	colorless crystals
A05-35-4142		C9H13N4O4P	272,20	289-292	colorless crystals

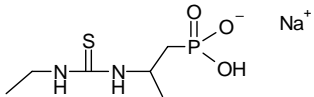
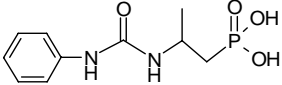
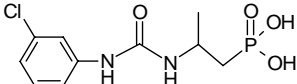
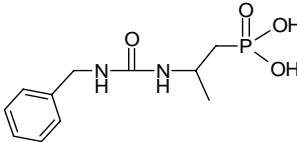
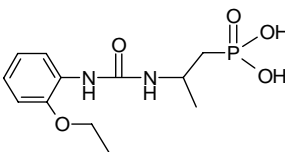
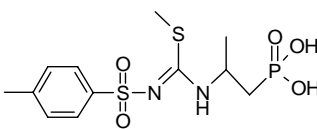
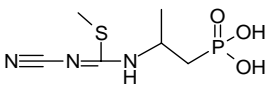
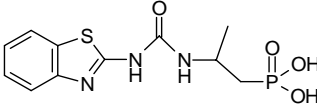
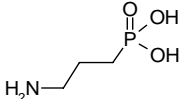
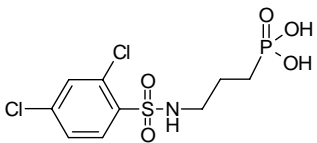
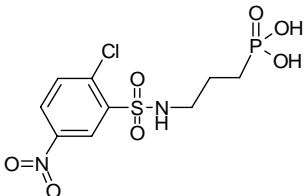
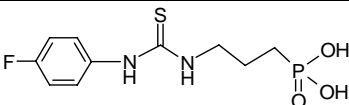
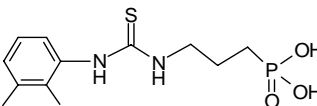
A05-49-4442		C <sub>13</sub> H <sub>15</sub> N <sub>2</sub> O <sub>5</sub> P	310,25	159-161	colorless crystals
A05-70-4920		C <sub>12</sub> H <sub>20</sub> N <sub>3</sub> O <sub>3</sub> PS	317,35	272-274	colorless crystals
A05-70-4921		C <sub>15</sub> H <sub>26</sub> N <sub>3</sub> O <sub>3</sub> PS	359,43	255-258	colorless crystals
A05-70-4922		C <sub>15</sub> H <sub>25</sub> ClN <sub>3</sub> O <sub>3</sub> PS	393,88	215-216	colorless crystals
A05-70-4923		C <sub>14</sub> H <sub>15</sub> ClN <sub>3</sub> O <sub>3</sub> PS	371,78	254-256	colorless crystals
A05-70-4946		C <sub>12</sub> H <sub>18</sub> NO <sub>6</sub> PS	335,32	166-168	colorless crystals
A05-74-5048		C <sub>9</sub> H <sub>14</sub> NO <sub>4</sub> P	231,19	303-305	colorless crystals
A05-74-5049		C <sub>11</sub> H <sub>16</sub> NO <sub>3</sub> P	241,23	188-190	colorless crystals
A05-74-5050		C <sub>14</sub> H <sub>22</sub> Cl <sub>2</sub> NO <sub>3</sub> P	354,22	146-148	colorless crystals
A05-74-5051		C <sub>10</sub> H <sub>13</sub> ClNO <sub>3</sub> P	261,65	185-187	colorless crystals

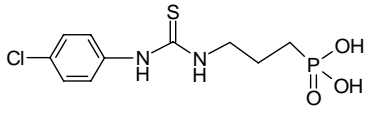
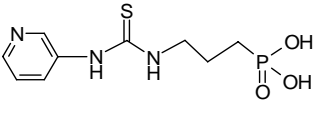
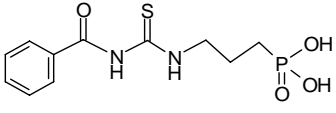
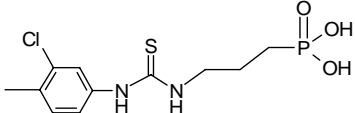
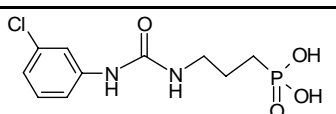
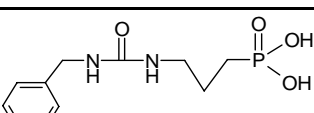
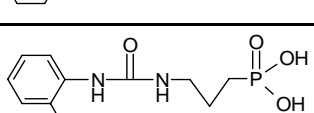
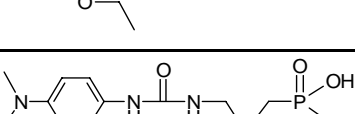
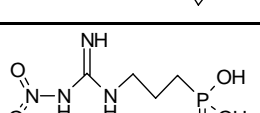
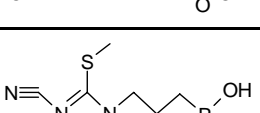
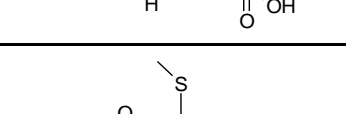
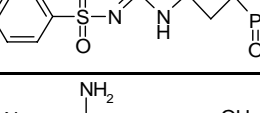
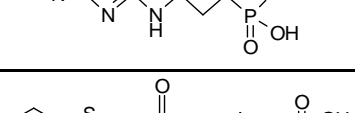
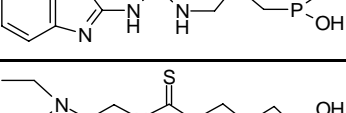


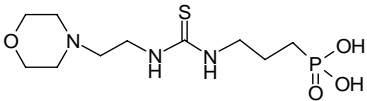
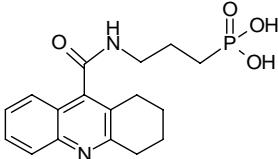
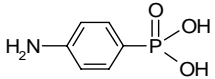
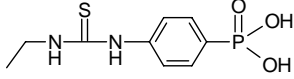
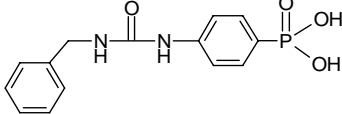
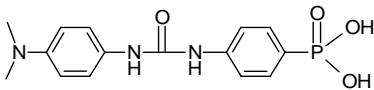
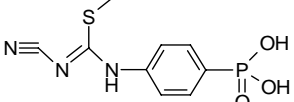
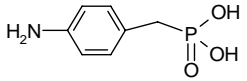
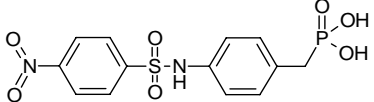
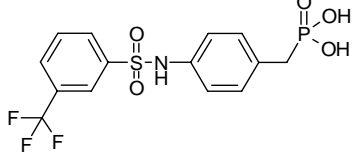
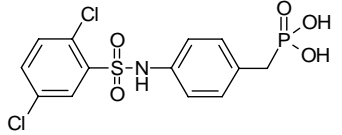
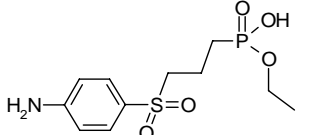
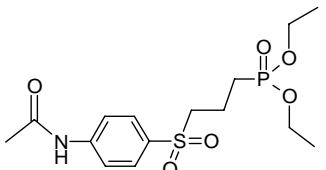
A05-74-5052		C15H26Cl2NO4P	386,26	120-122	colorless crystals
A05-74-5053		C10H15ClNO4P	279,66	190-192	colorless crystals
A06-00-2956		C5H12NO3P	165,13	278-280	colorless crystals
A06-00-2957		C6H14NO3P	179,16	249-252	colorless crystals
A06-00-3593		C3H10NO3P	139,09	265-268	colorless crystals
A06-23-3507		C9H13NaO5PS	301,24	265-268	white solid
A06-28-3735		C12H17N2O3PS	300,32	86-89	colorless crystals
A06-28-3736		C13H19N2O3PS	314,35	137-141	colorless crystals
A06-28-3737		C12H16ClN2O3PS	334,76	101-105	colorless crystals
A06-28-3738		C13H18FN2O3PS	332,34	158-160	colorless crystals
A06-28-3739		C14H20ClN2O3PS	362,82	131-135	colorless crystals
A06-28-3880		C8H17N2O3PS	252,27	75-79	colorless crystals
A06-29-3769		C10H14ClN2O4P	292,66	249-253	colorless crystals

A06-70-4918		C <sub>11</sub> H <sub>26</sub> N <sub>3</sub> O <sub>3</sub> PS	311,39	284-286	colorless crystals
A07-00-B4335		C <sub>2</sub> H <sub>8</sub> N <sub>3</sub> O <sub>3</sub> P	125,06	283-287	colorless crystals
A07-23-3511		C <sub>9</sub> H <sub>11</sub> F <sub>3</sub> N <sub>3</sub> O <sub>5</sub> PS	333,22	181-186	colorless crystals
A07-23-3512		C <sub>8</sub> H <sub>11</sub> N <sub>2</sub> O <sub>7</sub> PS	310,22	173-178	colorless crystals
A07-28-3741		C <sub>9</sub> H <sub>12</sub> FN <sub>2</sub> O <sub>3</sub> PS	278,24	232-237	colorless crystals
A07-28-3742		C <sub>10</sub> H <sub>12</sub> F <sub>3</sub> N <sub>2</sub> O <sub>3</sub> PS	328,25	128-131	colorless crystals
A07-28-3743		C <sub>11</sub> H <sub>17</sub> N <sub>2</sub> O <sub>3</sub> PS	288,31	76-80	colorless crystals
A07-28-3744		C <sub>8</sub> H <sub>12</sub> N <sub>3</sub> O <sub>3</sub> PS	261,24	175-178	colorless crystals
A07-28-3745		C <sub>10</sub> H <sub>13</sub> N <sub>2</sub> O <sub>4</sub> PS	288,26	145-151	colorless crystals
A07-28-3885		C <sub>11</sub> H <sub>16</sub> N <sub>3</sub> O <sub>3</sub> PS <sub>2</sub>	305,36	152-155	colorless crystals
A07-28-4868		C <sub>9</sub> H <sub>13</sub> N <sub>2</sub> O <sub>3</sub> PS	260,25	190-192	colorless crystals
A07-29-3771		C <sub>6</sub> H <sub>15</sub> N <sub>2</sub> O <sub>4</sub> P	210,17	114-118	colorless crystals
A07-29-3772		C <sub>9</sub> H <sub>13</sub> N <sub>2</sub> O <sub>4</sub> P	244,19	165-168	colorless crystals
A07-29-3774		C <sub>9</sub> H <sub>12</sub> ClN <sub>2</sub> O <sub>4</sub> P	278,63	169-171	colorless crystals

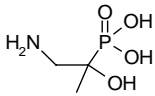
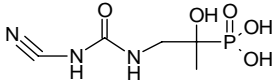
A07-29-3910		C6H13N2O4P	208,16	179-181	colorless crystals
A07-35-4143		C4H11N4O4P	210,13	210-213	colorless crystals
A07-35-4144		C3H9N4O5P	212,10	175-178	colorless crystals
A07-36-4019		C5H10N3O3PS	223,19	191-193	colorless crystals
A07-36-4020		C11H17N2O5PS2	352,37	128-131	colorless crystals
A07-36-4152		C10H14ClN2O5PS2	372,79	147-150	colorless crystals
A07-36A-5065		C4H9N4O3P	192,12	194-196	colorless crystals
A07-36A-5066		C6H13N4O3P	220,17	143-146	colorless crystals
A07-49-4283		C8H12N3O4P	245,18	170-173	cream-colored crystals
A07-49-4284		C10H12N3O4PS	301,26	190-193	colorless crystals
A07-70-4924		C7H18N3O3PS	255,28	202-203	colorless crystals
A07-70-4925		C9H20N3O4PS	297,32	230-231	colorless crystals
A08-00-2959		C3H10NO3P	139,09	270-273	colorless crystals
A08-23-3518		C9H13ClNO5PS	313,70	178-182	colorless crystals
A08-28-3746		C12H19N2O3PS	302,33	151-153	colorless crystals

A08-28-3890		C <sub>6</sub> H <sub>14</sub> N <sub>2</sub> NaO <sub>3</sub> PS	248,22	284-285	colorless crystals
A08-29-3775		C <sub>10</sub> H <sub>15</sub> N <sub>2</sub> O <sub>4</sub> P	258,22	150-154	colorless crystals
A08-29-3776		C <sub>10</sub> H <sub>14</sub> ClN <sub>2</sub> O <sub>4</sub> P	292,66	142-145	colorless crystals
A08-29-3913		C <sub>11</sub> H <sub>17</sub> N <sub>2</sub> O <sub>4</sub> P	272,24	138-140	colorless crystals
A08-29-3914		C <sub>12</sub> H <sub>19</sub> N <sub>2</sub> O <sub>5</sub> P	302,27	87-91	colorless crystals
A08-36-4021		C <sub>12</sub> H <sub>19</sub> N <sub>2</sub> O <sub>5</sub> PS <sub>2</sub>	366,40	130-133	colorless crystals
A08-36-4153		C <sub>6</sub> H <sub>12</sub> N <sub>3</sub> O <sub>3</sub> PS	237,22	140-144	colorless crystals
A08-49-4285		C <sub>11</sub> H <sub>14</sub> N <sub>3</sub> O <sub>4</sub> PS	315,29	188-191	colorless crystals
A09-00-2960		C <sub>3</sub> H <sub>10</sub> NO <sub>3</sub> P	139,09	273-275	colorless crystals
A09-23-3519		C <sub>9</sub> H <sub>12</sub> Cl <sub>2</sub> NO <sub>5</sub> PS	348,14	153-159	colorless crystals
A09-23-3520		C <sub>9</sub> H <sub>12</sub> ClN <sub>2</sub> O <sub>7</sub> PS	358,70	204-209	colorless platelets
A09-28-3748		C <sub>10</sub> H <sub>14</sub> FN <sub>2</sub> O <sub>3</sub> PS	292,27	156-158	colorless crystals
A09-28-3749		C <sub>12</sub> H <sub>19</sub> N <sub>2</sub> O <sub>3</sub> PS	302,33	46-49	colorless crystals

A09-28-3750		C10H14ClN2O3PS	308,73	165-168	colorless crystals
A09-28-3751		C9H14N3O3PS	275,27	182-186	colorless crystals
A09-28-3752		C11H15N2O4PS	302,29	104-109	colorless crystals
A09-28-4869		C11H16ClN2O3PS	322,75	159-161	colorless crystals
A09-29-3779		C10H14ClN2O4P	292,66	145-147	colorless crystals
A09-29-3921		C11H17N2O4P	272,24	203-205	colorless crystals
A09-29-3922		C12H19N2O5P	302,27	131-133	colorless crystals
A09-29-3923		C12H20N3O4P	301,28	202-205	colorless crystals
A09-35-4014		C4H11N4O5P	226,13	170-174	colorless crystals
A09-36-4022		C6H12N3O3PS	237,22	150-152	colorless plates
A09-36-4023		C12H19N2O5PS2	366,40	182-185	colorless crystals
A09-36A-5067		C5H11N4O3P	206,14	201-203	colorless crystals
A09-49-4286		C11H14N3O4PS	315,29	189-192	colorless crystals
A09-70-4926		C10H24N3O3PS	297,36	219-220	colorless crystals

A09-70-4927		C10H22N3O4PS	311,34	231-232	colorless crystals
A09-74-5054		C17H21N2O4P	348,34	245-247	colorless crystals
A10-00-2961		C6H8NO3P	173,11	252-255	cream-colored crystals
A10-28-3894		C9H13N2O3PS	260,25	208-213	colorless crystals
A10-29-3927		C14H15N2O4P	306,26	204-205	colorless crystals
A10-29-3928		C15H18N3O4P	335,30	254-256	bluish crystals
A10-36-4025		C9H10N3O3PS	271,24	290-295	white solid
A11-00-B3942		C7H10NO3P	187,14	298-303	colorless crystals
A11-23-3528		C13H13N2O7PS	372,30	190-196	cream-colored crystals
A11-23-3529		C14H13F3NO5PS	395,30	161-167	colorless crystals
A11-23-3530		C13H12Cl2NO5PS	396,19	208-212	cream-colored crystals
A12-64-4793		C11H18NO5PS	307,31	152-154	cream-colored crystals
A12-64-4794		C15H24NO6PS	377,40	134-136	colorless crystals

## A. AMINO-PHOSPHONIC ACIDS and N-derivatives.xls

A13-00-B6409	 <chem>NC(C(=O)OP(=O)(O)O)O</chem>	C3H10NO4P	155,09	239-241	colorless crystals
A13-36A-5055	 <chem>NC(=O)N#CC(C(=O)OP(=O)(O)O)O</chem>	C5H10N3O5P	223,13	324-327	colorless crystals