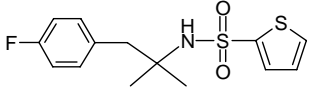
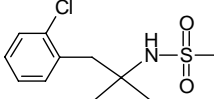
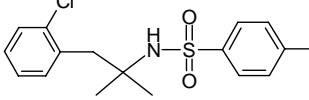
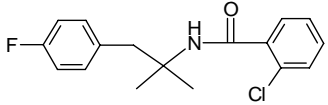
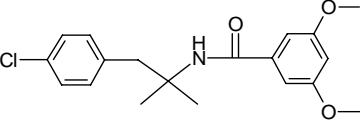
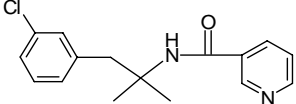
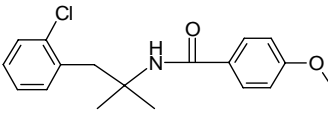
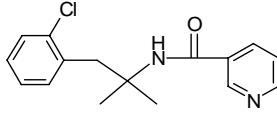
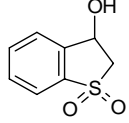
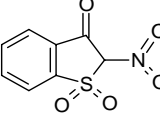
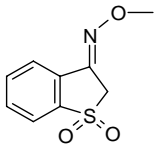
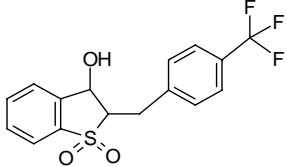
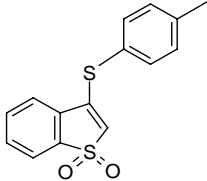
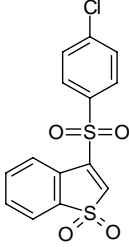
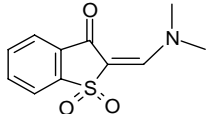
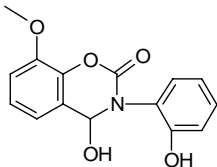
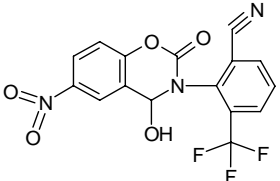
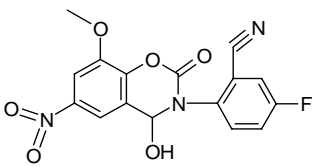
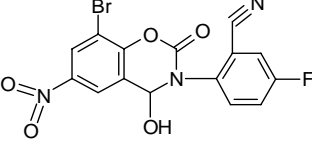
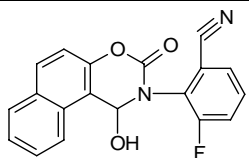
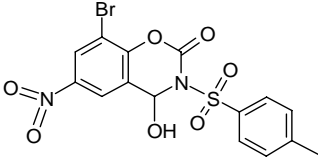


Z. SELECTED NON-PHOSPHORUS COMPOUNDS.xls

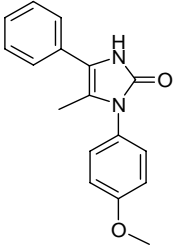
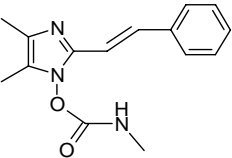
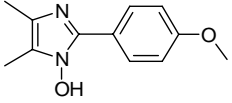
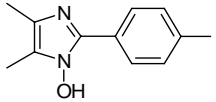
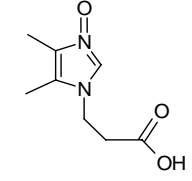
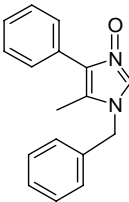
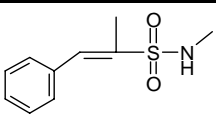
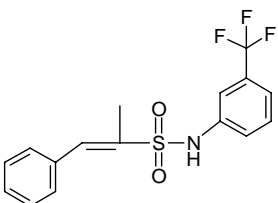
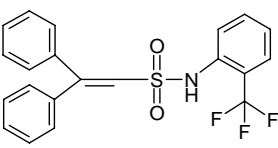
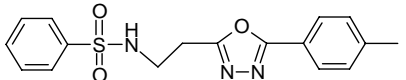
ID Number	Structure	Formula	M.W.	m.p. (°C)	Remarks
Z	SELECTED NON-PHOSPHORUS COMPOUNDS				
Z-01-1035		C14H16FNO2S2	313,42	67-69	colorless plates
Z-01-1048		C11H16ClNO2S	261,77	94-97	colorless needles
Z-01-1050		C17H20ClNO2S	337,87	106-107	colorless plates
Z-01-1106		C17H17ClFNO	305,78	112-113	colorless needles
Z-01-1119		C19H22ClNO3	347,85	147-148	colorless needles
Z-01-1127		C16H17ClN2O	288,78	90-91	colorless needles
Z-01-1134		C18H20ClNO2	317,82	91-92	colorless needles
Z-01-1137		C16H17ClN2O	288,78	60-61	colorless crystals
Z-02-1528		C8H8O3S	184,22	70-71	colorless crystals
Z-02-1530		C8H5NO5S	227,20	207-208	colorless crystals
Z-02-1532		C9H9NO3S	211,24	146-147	colorless needles
Z-02-1544		C16H13F3O3S	342,34	113-115	colorless crystals

Z. SELECTED NON-PHOSPHORUS COMPOUNDS.xls

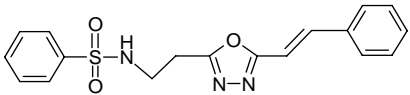
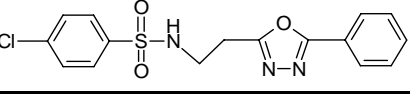
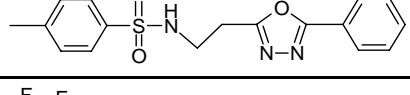
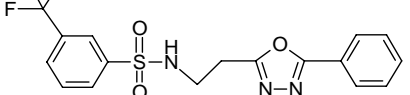
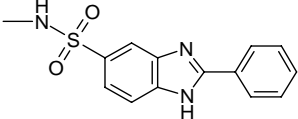
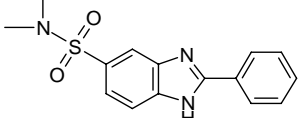
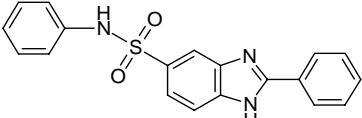
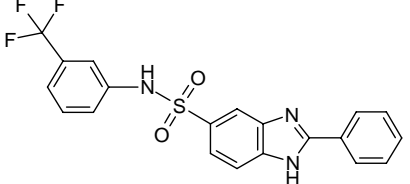
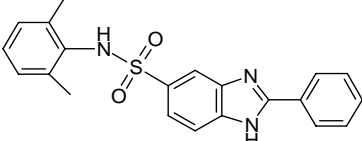
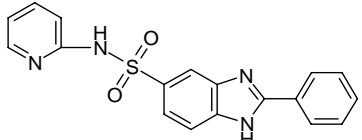
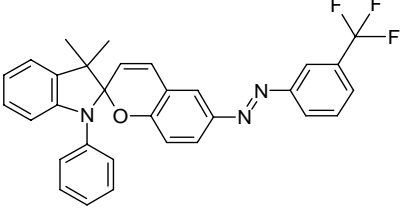
Z-02-1554		C ₁₅ H ₁₂ O ₂ S ₂	288,39	117-118	colorless needles
Z-02-1558		C ₁₄ H ₉ ClO ₄ S ₂	340,81	190-192	colorless crystals
Z-02-5034		C ₁₁ H ₁₁ NO ₃ S	237,28	211-215	yellow crystals
Z-03-1055		C ₁₅ H ₁₃ NO ₅	287,27	146-148	yellow crystals
Z-03-1065		C ₁₆ H ₈ F ₃ N ₃ O ₅	379,25	170-171	pale yellow crystals
Z-03-1077		C ₁₆ H ₁₀ FN ₃ O ₆	359,27	over 270	salmon-pink needles
Z-03-1083		C ₁₅ H ₇ BrFN ₃ O ₅	408,14	254-255	yellow crystals
Z-03-1088		C ₁₉ H ₁₁ FN ₂ O ₃	334,31	232-233	pale yellow solid
Z-03-1096		C ₁₅ H ₁₁ BrN ₂ O ₇ S	443,23	202-203	pale yellow crystals

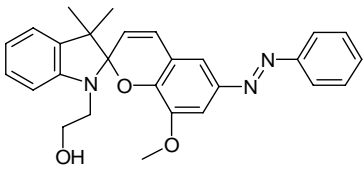
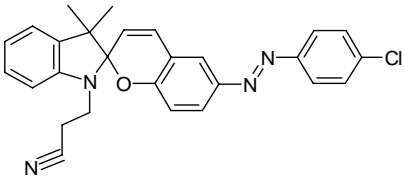
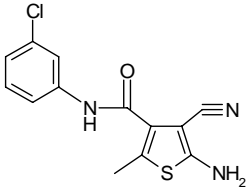
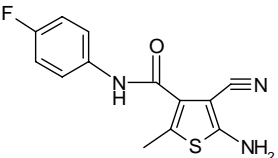
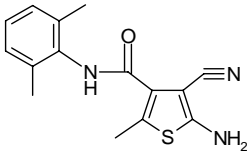
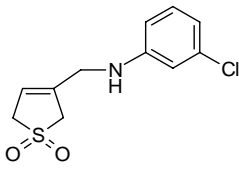
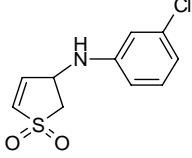
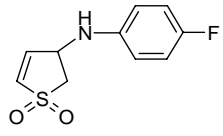
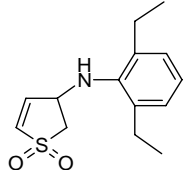
Z. SELECTED NON-PHOSPHORUS COMPOUNDS.xls

Z-03-1342		C ₁₄ H ₁₀ ClNO ₄	291,69	over 270	colorless needles
Z-03-1344		C ₁₅ H ₁₂ ClNO ₄	305,72	107-108	orange needles
Z-03-1346		C ₁₄ H ₉ Cl ₂ NO ₃	310,14	143-145	pale yellow needles
Z-03-1349		C ₁₄ H ₉ Cl ₂ NO ₄	326,14	265-266	pale yellow crystals
Z-03-1355		C ₁₅ H ₁₁ ClN ₂ O ₆	350,72	223-225	orange crystals
Z-03-1370		C ₁₅ H ₁₀ BrCl ₂ NO ₄	419,06	148-149	salmon-pink needles
Z-03-B1657		C ₁₆ H ₇ ClF ₃ N ₃ O ₅	413,70	219-220	orange-red crystals
Z-04-0076		C ₄ H ₆ N ₂ O ₂	114,10	206-208	colorless crystals
Z-04-0215		C ₈ H ₁₂ N ₂ O ₃	184,20	89-90	cream-colored crystals
Z-04-0216		C ₁₇ H ₁₆ N ₂ O	264,33	109-111	cream-colored plates

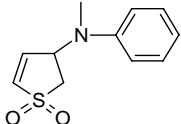
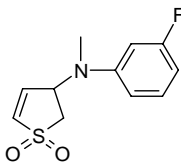
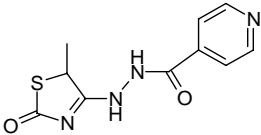
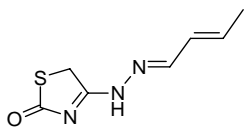
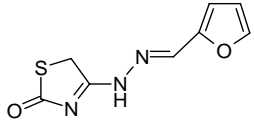
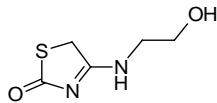
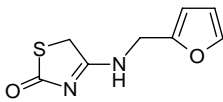
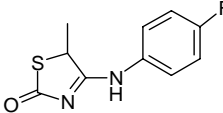
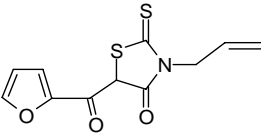
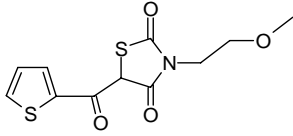
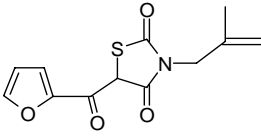
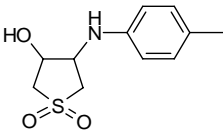
Z-04-0218		C ₁₇ H ₁₆ N ₂ O ₂	280,33	245-246	colorless crystals
Z-04-1376		C ₁₅ H ₁₇ N ₃ O ₂	271,32	135-136	colorless crystals
Z-04-1720		C ₁₂ H ₁₄ N ₂ O ₂	218,26	110-112	cream-colored crystals
Z-04-2989		C ₁₂ H ₁₄ N ₂ O	202,26	208-209	white solid
Z-04-2993		C ₈ H ₁₂ N ₂ O ₃	184,20	153-156	colorless crystals
Z-04-2994		C ₁₇ H ₁₆ N ₂ O	264,33	197-200	colorless crystals
Z-05-1566		C ₁₀ H ₁₃ NO ₂ S	211,28	105-106	colorless crystals
Z-05-1568		C ₁₆ H ₁₄ F ₃ NO ₂ S	341,35	61-63	colorless crystals
Z-05-C0045		C ₂₁ H ₁₆ F ₃ NO ₂ S	403,43	75-76	colorless crystals
Z-06-1925		C ₁₇ H ₁₇ N ₃ O ₃ S	343,41	121-122	colorless crystals

Z. SELECTED NON-PHOSPHORUS COMPOUNDS.xls

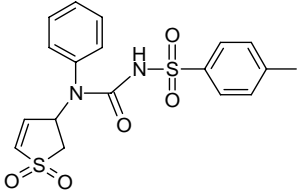
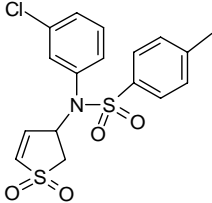
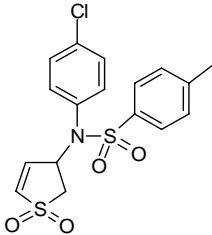
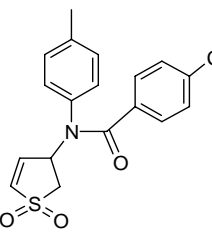
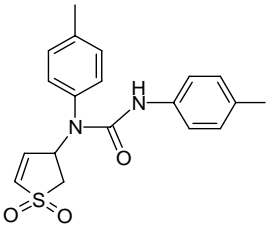
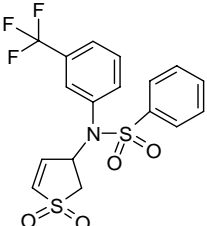
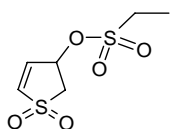
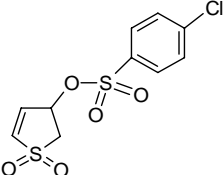
Z-06-1926		C18H17N3O3S	355,42	119-120	colorless crystals
Z-06-1927		C16H14ClN3O3S	363,83	154-155	colorless crystals
Z-06-1928		C17H17N3O3S	343,41	143-144	colorless needles
Z-06-1929		C17H14F3N3O3S	397,38	105-106	cream-colored crystals
Z-07-1573		C14H13N3O2S	287,34	238-240	colorless solid
Z-07-1574		C15H15N3O2S	301,37	133-139	colorless crystals
Z-07-1575		C19H15N3O2S	349,41	208-209	colorless crystals
Z-07-1580		C20H14F3N3O2S	417,41	239-240	colorless crystals
Z-07-1581		C21H19N3O2S	377,47	315-316	colorless plates
Z-07-1583		C18H14N4O2S	350,40	208-210	colorless crystals
Z-08-1603		C31H24F3N3O	511,55	135-136	yellow crystals

Z-08-1606		C ₂₇ H ₂₇ N ₃ O ₃	441,53	159-160	yellow crystals
Z-08-1610		C ₂₇ H ₂₃ ClN ₄ O	454,96	125-127	yellow crystals
Z-09-1625		C ₁₃ H ₁₀ ClN ₃ OS	291,76	230-232	colorless crystals
Z-09-1626		C ₁₃ H ₁₀ FN ₃ OS	275,31	227-229	colorless crystals
Z-09-1629		C ₁₅ H ₁₅ N ₃ OS	285,37	223-225	colorless crystals
Z-10-1645		C ₁₁ H ₁₂ ClNO ₂ S	257,74	132-133	colorless crystals
Z-11-1650		C ₁₀ H ₁₀ ClNO ₂ S	243,71	189-190	colorless plates
Z-11-1651		C ₁₀ H ₁₀ FNO ₂ S	227,26	131-132	colorless plates
Z-11-1653		C ₁₄ H ₁₉ NO ₂ S	265,38	64-67	colorless crystals

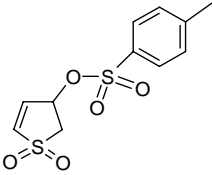
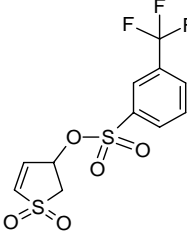
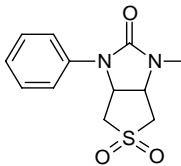
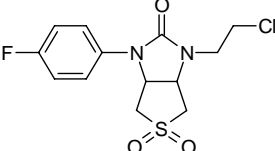
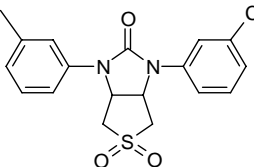
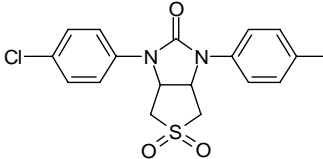
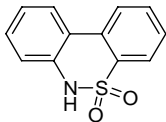
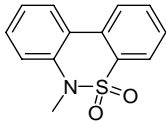
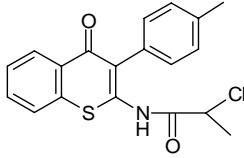
Z. SELECTED NON-PHOSPHORUS COMPOUNDS.xls

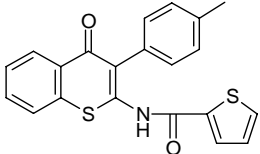
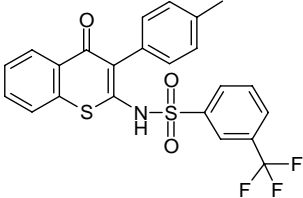
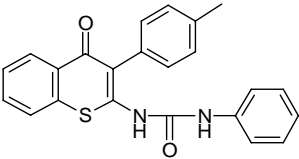
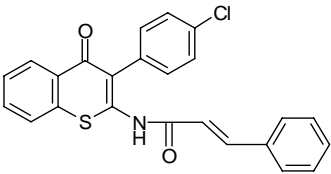
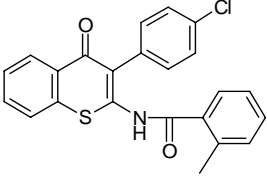
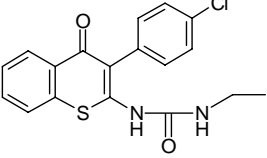
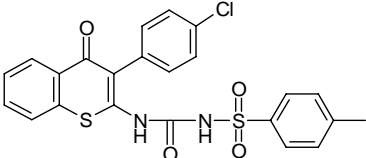
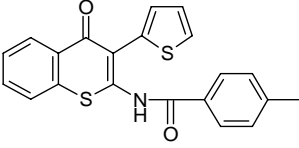
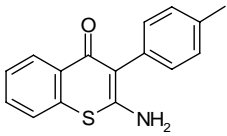
Z-11-1654		C ₁₁ H ₁₃ NO ₂ S	223,30	80-81	colorless needles
Z-11-1656		C ₁₁ H ₁₂ FNO ₂ S	241,29	88-95	colorless crystals
Z-12-1697		C ₁₀ H ₁₀ N ₄ O ₂ S	250,28	185-187	colorless crystals
Z-12-1947		C ₇ H ₉ N ₃ OS	183,23	183-186	colorless crystals
Z-12-1956		C ₈ H ₇ N ₃ O ₂ S	209,23	200-202	colorless crystals
Z-13-1662		C ₅ H ₈ N ₂ O ₂ S	160,20	163-166	pale yellow crystals
Z-13-1667		C ₈ H ₈ N ₂ O ₂ S	196,23	130-131	pale yellow needles
Z-13-1675		C ₁₀ H ₉ FN ₂ OS	224,26	205-210	pale yellow crystals
Z-14-1971		C ₁₁ H ₉ NO ₃ S ₂	267,33	73-76	yellow crystals
Z-14-2043		C ₁₁ H ₁₁ NO ₄ S ₂	285,34	104-108	yellow needles
Z-14-2046		C ₁₂ H ₁₁ NO ₄ S	265,29	106-110	pale yellow crystals
Z-15-1989		C ₁₁ H ₁₅ NO ₃ S	241,31	173-174	colorless plates

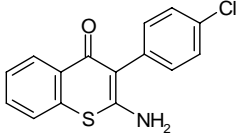
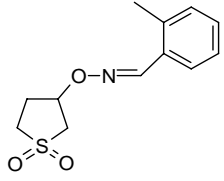
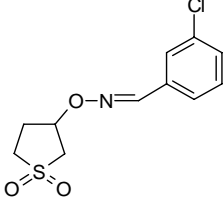
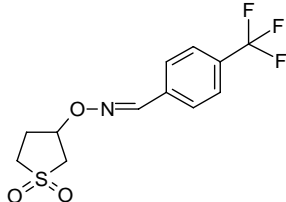
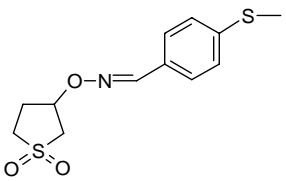
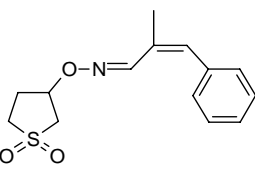
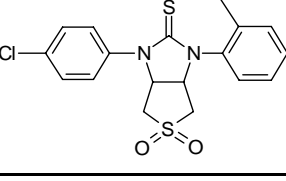
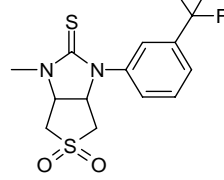
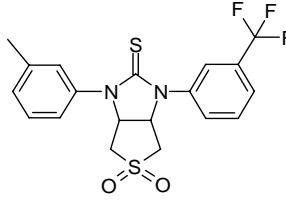
Z. SELECTED NON-PHOSPHORUS COMPOUNDS.xls

Z-16-1996		C ₁₈ H ₁₈ N ₂ O ₅ S ₂	406,48	239-241	colorless needles
Z-16-1999		C ₁₇ H ₁₆ ClNO ₄ S ₂	397,90	155-156	colorless crystals
Z-16-2002		C ₁₇ H ₁₆ ClNO ₄ S ₂	397,90	168-169	colorless crystals
Z-16-2008		C ₁₈ H ₁₆ ClNO ₃ S	361,85	168-169	colorless needles
Z-16-2011		C ₁₉ H ₂₀ N ₂ O ₃ S	356,45	186-188	cream-colored crystals
Z-16-2012		C ₁₇ H ₁₄ F ₃ NO ₄ S ₂	417,43	150-151	colorless crystals
Z-17-2014		C ₆ H ₁₀ O ₅ S ₂	226,27	71-72	colorless crystals
Z-17-2016		C ₁₀ H ₉ ClO ₅ S ₂	308,76	119-120	colorless crystals

Z. SELECTED NON-PHOSPHORUS COMPOUNDS.xls

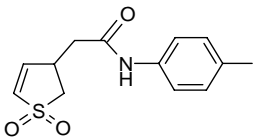
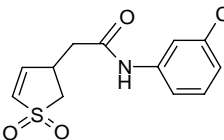
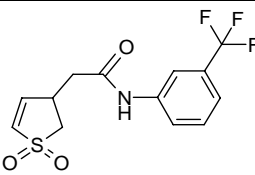
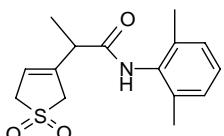
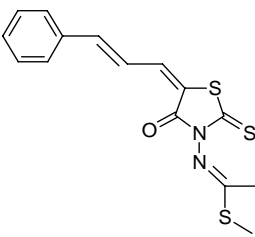
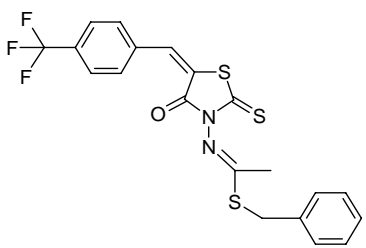
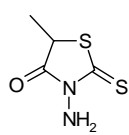
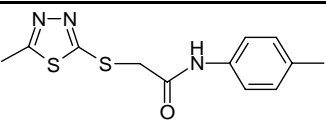
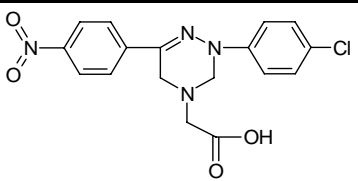
Z-17-2017		C ₁₁ H ₁₂ O ₅ S ₂	288,34	135-136	colorless plates
Z-17-2018		C ₁₁ H ₉ F ₃ O ₅ S ₂	342,31	105-106	colorless needles
Z-18-2019		C ₁₂ H ₁₄ N ₂ O ₃ S	266,32	188-189	colorless needles
Z-18-2020		C ₁₃ H ₁₄ ClFN ₂ O ₃ S	332,78	139-141	colorless crystals
Z-18-2027		C ₁₈ H ₁₇ ClN ₂ O ₃ S	376,86	168-169	colorless needles
Z-18-2028		C ₁₈ H ₁₇ ClN ₂ O ₃ S	376,86	198-200	colorless crystals
Z-19-2535		C ₁₂ H ₉ NO ₂ S	231,28	190-192	cream-colored plates
Z-19-2537		C ₁₃ H ₁₁ NO ₂ S	245,30	109-110	colorless crystals
Z-20-2081		C ₁₉ H ₁₆ ClNO ₂ S	357,86	187-188	colorless needles

Z-20-2084		C ₂₁ H ₁₅ NO ₂ S ₂	377,49	216-218	pale yellow needles
Z-20-2086		C ₂₃ H ₁₆ F ₃ NO ₃ S ₂	475,51	189-190	yellow crystals
Z-20-2088		C ₂₃ H ₁₈ N ₂ O ₂ S	386,48	209-210	colorless crystals
Z-20-2093		C ₂₄ H ₁₆ ClNO ₂ S	417,92	217-218	pale yellow crystals
Z-20-2094		C ₂₃ H ₁₆ ClNO ₂ S	405,91	181-182	yellowish needles
Z-20-2097		C ₁₈ H ₁₅ ClN ₂ O ₂ S	358,85	224-225	colorless crystals
Z-20-2099		C ₂₃ H ₁₇ ClN ₂ O ₄ S ₂	484,98	210-211	yellowish crystals
Z-20-2101		C ₂₁ H ₁₅ NO ₂ S ₂	377,49	169-171	yellowish crystals
Z-20-2992		C ₁₆ H ₁₃ NOS	267,35	209-210	colorless crystals

Z-20-B2101		C ₁₅ H ₁₀ ClNOS	287,77	249-251	colorless crystals
Z-21-2103		C ₁₂ H ₁₅ NO ₃ S	253,32	68-69	colorless crystals
Z-21-2106		C ₁₁ H ₁₂ ClNO ₃ S	273,74	69-70	colorless crystals
Z-21-2109		C ₁₂ H ₁₂ F ₃ NO ₃ S	307,29	83-84	colorless crystals
Z-21-2110		C ₁₂ H ₁₅ NO ₃ S ₂	285,39	121-122	colorless crystals
Z-21-2112		C ₁₄ H ₁₇ NO ₃ S	279,36	92-93	colorless crystals
Z-22-2116		C ₁₈ H ₁₇ ClN ₂ O ₂ S ₂	392,93	252-253	colorless crystals
Z-22-2132		C ₁₃ H ₁₃ F ₃ N ₂ O ₂ S ₂	350,38	174-175	colorless crystals
Z-22-2135		C ₁₉ H ₁₇ F ₃ N ₂ O ₂ S ₂	426,48	227-228	colorless crystals

Z-22-2139		C19H20N2O2S2	372,51	220-221	colorless crystals
Z-22-2142		C18H17FN2O2S2	376,47	221-222	colorless crystals
Z-23-2118		C12H13NO2S3	299,43	258-259	colorless plates
Z-23-2145		C13H14FNO2S3	331,45	181-182	colorless plates
Z-23-2146		C10H11NO3S3	289,40	182-183	colorless crystals
Z-24-2148		C12H13ClO4S	288,75	89-90	colorless needles
Z-24-2152		C13H17NO3S	267,35	116-117	colorless crystals
Z-24-2158		C13H16FNO3S	285,34	159-160	colorless crystals
Z-24-2159		C14H20N2O3S	296,39	131-132	colorless needles
Z-25-2161		C12H11ClO4S	286,74	96-97	colorless crystals

Z. SELECTED NON-PHOSPHORUS COMPOUNDS.xls

Z-25-2164		C13H15NO3S	265,33	130-131	colorless crystals
Z-25-2165		C12H12ClNO3S	285,75	121-122	colorless crystals
Z-25-2167		C13H12F3NO3S	319,30	134-135	colorless crystals
Z-26-2172		C15H19NO3S	293,39	166-167	colorless crystals
Z-27-2188		C15H14N2OS3	334,48	148-152	pale yellow crystals
Z-27-2193		C20H15F3N2OS3	452,54	125-126	salmon-pink crystals
Z-27-2998		C4H6N2OS2	162,23	64-65	colorless crystals
Z-28-2209		C12H13N3OS2	279,38	153-154	colorless plates
Z-29-2444		C17H15ClN4O4	374,79	172-174	orange-red crystals

Z. SELECTED NON-PHOSPHORUS COMPOUNDS.xls

Z-29-2447		C13H14ClN3O3	295,73	151-154	yellow crystals
Z-29-2448		C18H17N3O3	323,35	133-136	yellow crystals
Z-29-2450		C12H14N4O4	278,27	163-164	yellow crystals
Z-29-2455		C20H21N3O3	351,41	127-128	pale yellow crystals
Z-29-2467		C13H16N4O4	292,30	159-160	orange crystals
Z-29-2469		C16H16N4O5	344,33	165-166	orange needles
Z-29-2475		C18H17ClN4O3	372,81	178-179	yellow crystals
Z-29-2476		C18H18N4O3	338,37	184-185	yellow needles

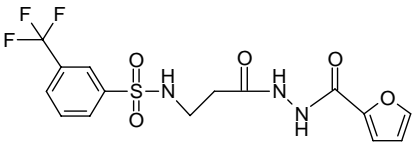
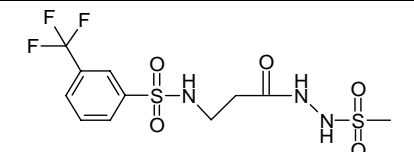
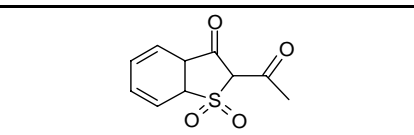
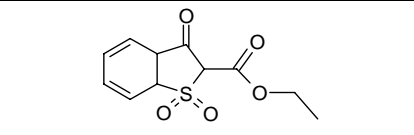
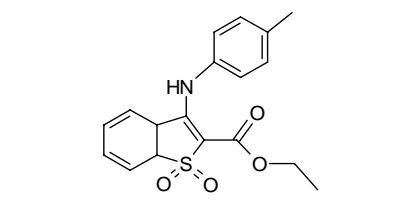
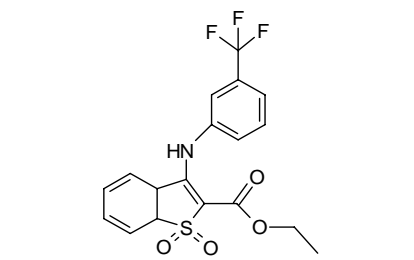
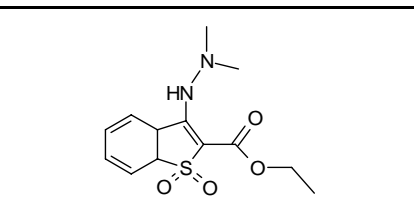
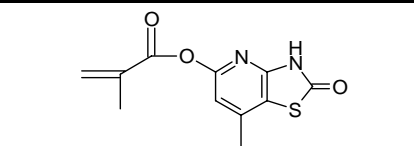
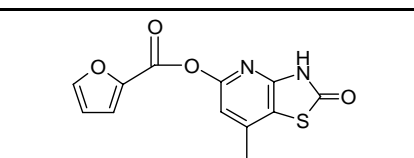
Z. SELECTED NON-PHOSPHORUS COMPOUNDS.xls

Z-29-2477		C ₂₀ H ₂₁ N ₃ O ₃	351,41	153-154	colorless needles
Z-29-2478		C ₂₅ H ₂₂ N ₄ O ₅	458,48	137-138	orange-yellow crystals
Z-29-2480		C ₂₃ H ₂₁ N ₃ O ₃ S	419,51	165-166	pale yellow plates
Z-30-2540		C ₂₀ H ₁₆ ClN ₃ O ₂ S	397,89	158-161	orange plates
Z-30-2548		C ₂₁ H ₁₉ N ₃ O ₂ S	377,47	140-143	orange-red needles
Z-31-2551		C ₁₄ H ₁₃ N ₃ O ₄ S	319,34	173-174	pale yellow needles
Z-31-2557		C ₂₁ H ₁₉ N ₃ O ₄ S	409,47	221-222	orange crystals

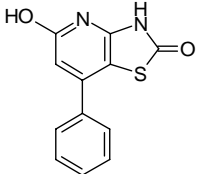
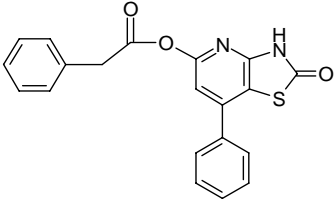
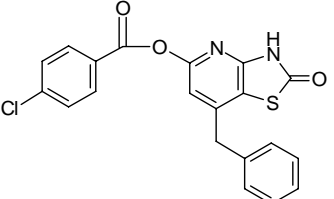
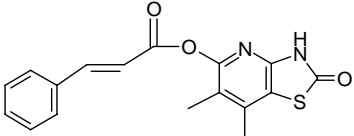
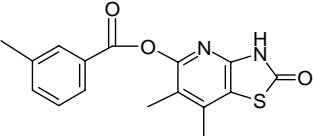
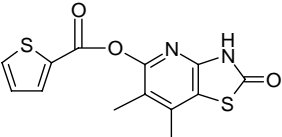
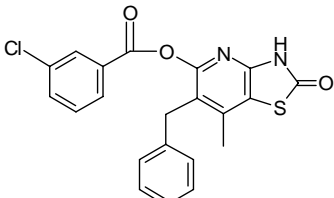
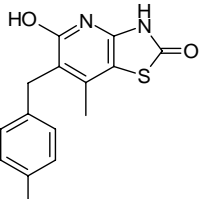
Z. SELECTED NON-PHOSPHORUS COMPOUNDS.xls

Z-31-2562		C19H15ClN4O4S	430,87	147-150	2 isomers pale yellow crystals
Z-31-2564		C21H18ClN3O4S	443,91	216-220	2 isomers orange-yellow needles
Z-31-2565		C19H17N3O5S	399,43	171-174	pale pink plates
Z-32-1884		C11H16N4O3S2	316,40	169-170	colorless plates
Z-32-1894		C15H17N3O5S2	383,45	149-150	colorless crystals
Z-32-1898		C12H16Cl2N4O4S	383,26	188-189	colorless plates
Z-32-1902		C10H14ClN3O5S2	355,82	123-125	colorless crystals
Z-32-1904		C12H18N4O4S	314,37	198-199	colorless needles
Z-32-1908		C13H19N3O3S	297,38	150-151	colorless crystals
Z-32-1909		C10H12F3N3O3S	311,28	155-156	colorless crystals
Z-32-1912		C17H16ClF3N4O4S	464,85	182-183	colorless crystals
Z-32-1914		C12H14F3N3O4S	353,32	165-166	colorless crystals

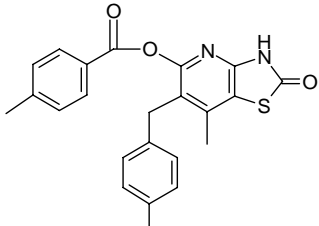
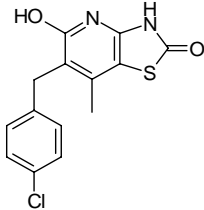
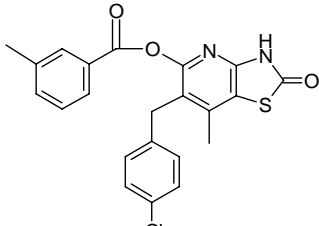
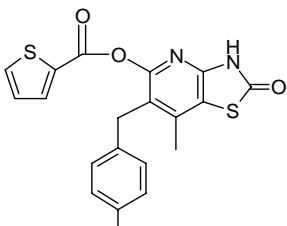
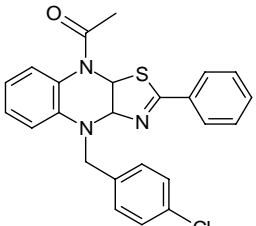
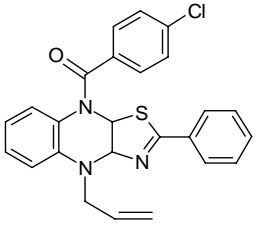
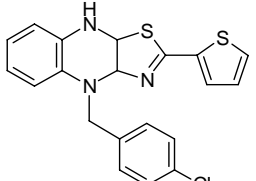
Z. SELECTED NON-PHOSPHORUS COMPOUNDS.xls

Z-32-1916		C15H14F3N3O5S	405,36	126-127	colorless plates
Z-32-1917		C11H14F3N3O5S2	389,37	139-140	colorless crystals
Z-33-1535		C10H10O4S	226,25	164-168	colorless crystals
Z-33-1548		C11H12O5S	256,28	132-136	colorless crystals
Z-33-1549		C18H19NO4S	345,42	180-183	colorless crystals
Z-33-1550		C18H16F3NO4S	399,39	175-178	colorless crystals
Z-33-1552		C13H18N2O4S	298,36	134-135	colorless crystals
Z-34-2580		C11H10N2O3S	250,28	117-118	colorless needles
Z-34-2582		C12H8N2O4S	276,27	219-220	colorless needles

Z. SELECTED NON-PHOSPHORUS COMPOUNDS.xls

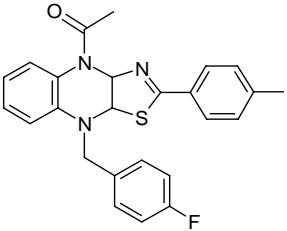
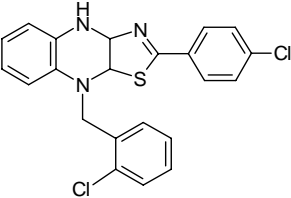
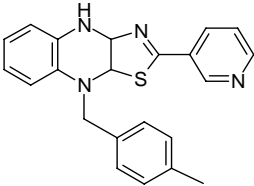
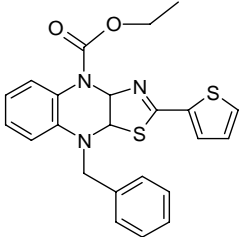
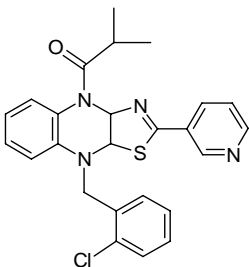
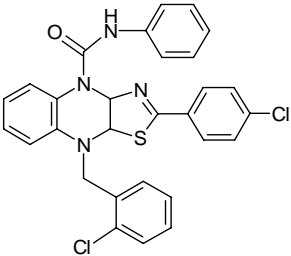
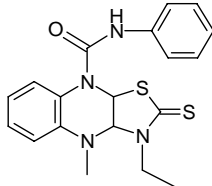
Z-34-2583		C ₁₂ H ₈ N ₂ O ₂ S	244,27	278-280	yellowish crystals
Z-34-2584		C ₂₀ H ₁₄ N ₂ O ₃ S	362,41	206-207	colorless needles
Z-34-2588		C ₂₀ H ₁₃ ClN ₂ O ₃ S	396,86	237-238	colorless needles
Z-34-2592		C ₁₇ H ₁₄ N ₂ O ₃ S	326,38	238-239	colorless plates
Z-34-2593		C ₁₆ H ₁₄ N ₂ O ₃ S	314,37	203-204	colorless crystals
Z-34-2595		C ₁₃ H ₁₀ N ₂ O ₃ S ₂	306,36	240-241	colorless needles
Z-34-2598		C ₂₁ H ₁₅ ClN ₂ O ₃ S	410,88	199-201	colorless needles
Z-34-2600		C ₁₅ H ₁₄ N ₂ O ₂ S	286,36	300-301	cream-colored crystals

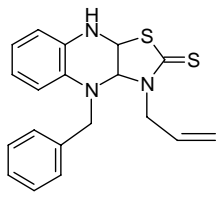
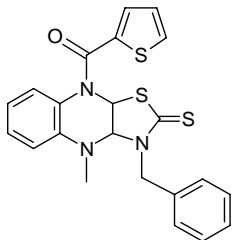
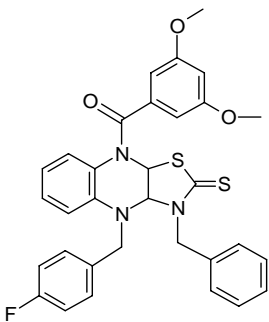
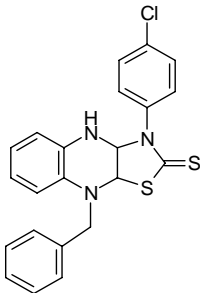
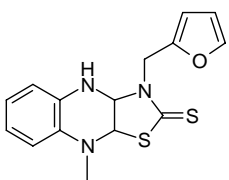
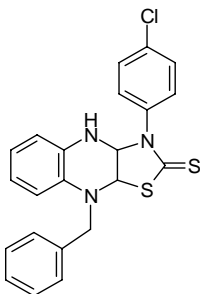
Z. SELECTED NON-PHOSPHORUS COMPOUNDS.xls

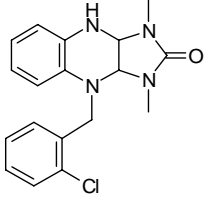
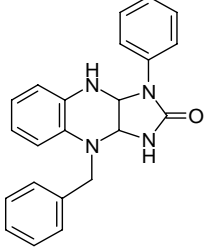
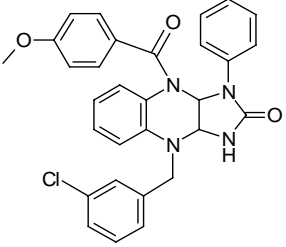
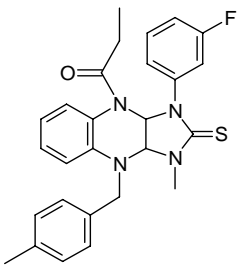
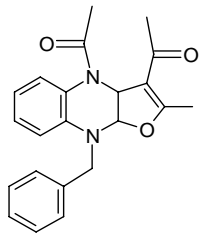
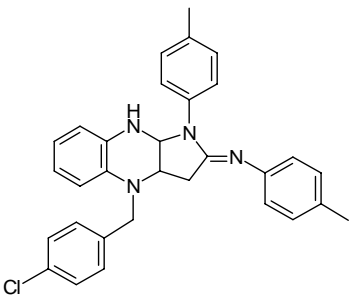
Z-34-2603		C ₂₃ H ₂₀ N ₂ O ₃ S	404,49	235-236	colorless crystals
Z-34-2605		C ₁₄ H ₁₁ ClN ₂ O ₂ S	306,77	328-330	colorless crystals
Z-34-2607		C ₂₂ H ₁₇ ClN ₂ O ₃ S	424,91	241-242	colorless crystals
Z-34-2608		C ₁₉ H ₁₃ ClN ₂ O ₃ S ₂	416,91	226-227	colorless crystals
Z-35-3121		C ₂₄ H ₂₀ ClN ₃ O ₃ S	433,96	188-191	yellowish crystals
Z-35-3124		C ₂₅ H ₂₀ ClN ₃ O ₃ S	445,97	158-159	colorless crystals
Z-35-3322		C ₂₀ H ₁₆ ClN ₃ S ₂	397,95	135-139	yellowish crystals

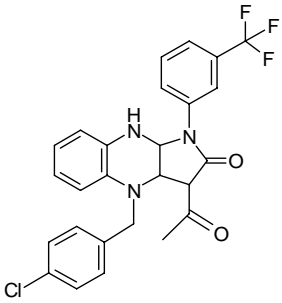
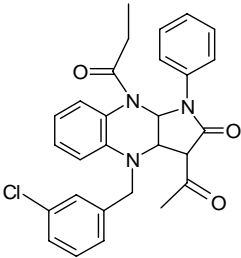
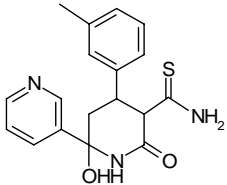
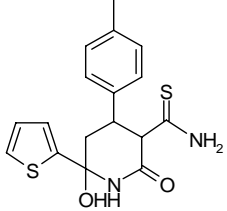
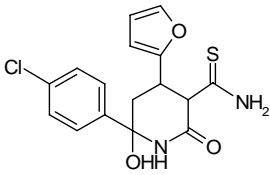
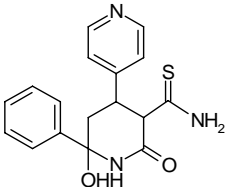
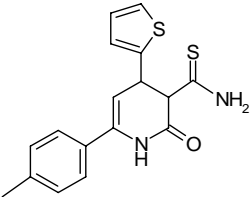
Z-35-3324		C ₂₁ H ₁₇ CIN ₄ S	392,91	149-154	cream-colored crystals
Z-35-3327		C ₂₀ H ₂₀ CIN ₃ OS	385,92	126-128	colorless crystals
Z-35-3342		C ₃₀ H ₂₅ CIN ₄ O ₂ S	541,08	108-111	cream-colored crystals
Z-35-3343		C ₂₅ H ₂₂ N ₄ OS	426,54	171-173	colorless crystals
Z-35-3350		C ₂₈ H ₂₁ ClFN ₅ OS	530,03	184-186	colorless crystals
Z-36-3138		C ₃₀ H ₂₄ CIN ₃ OS	510,06	119-124	colorless crystals

Z. SELECTED NON-PHOSPHORUS COMPOUNDS.xls

Z-36-3139		C ₂₅ H ₂₂ FN ₃ O ₂ S	431,54	173-177	yellowish crystals
Z-36-3352		C ₂₂ H ₁₇ Cl ₂ N ₃ S	426,37	138-145	pale yellow crystals
Z-36-3355		C ₂₂ H ₂₀ N ₄ S	372,50	149-153	yellowish crystals
Z-36-3358		C ₂₃ H ₂₁ N ₃ O ₂ S ₂	435,57	145-146	cream-colored crystals
Z-36-3366		C ₂₅ H ₂₃ ClN ₄ O ₂ S	463,01	192-194	colorless crystals
Z-36-3368		C ₂₉ H ₂₂ Cl ₂ N ₄ O ₂ S	545,49	150-153	cream-colored crystals
Z-37-2765		C ₁₉ H ₂₀ N ₄ O ₂ S ₂	384,53	197-198	colorless crystals

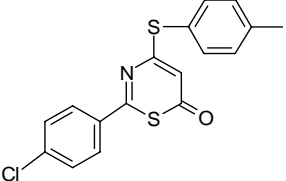
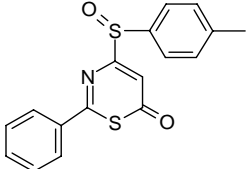
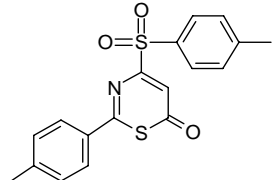
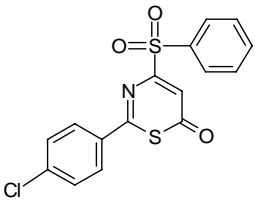
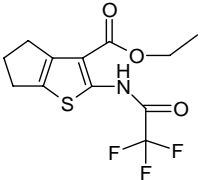
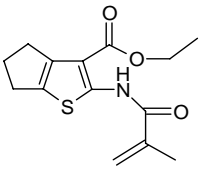
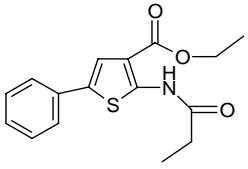
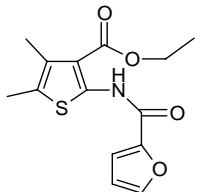
Z-37-2767		C ₁₉ H ₁₉ N ₃ S ₂	353,51	125-126	cream-colored crystals
Z-37-2774		C ₂₂ H ₁₉ N ₃ O ₃ S ₃	437,61	201-203	pale yellow crystals
Z-37-3374		C ₃₂ H ₂₈ N ₃ O ₃ S ₂	585,72	185-192	colorless crystals
Z-38-2778		C ₂₂ H ₁₈ ClN ₃ S ₂	423,99	146-147	colorless crystals
Z-38-2780		C ₁₅ H ₁₅ N ₃ O ₃ S ₂	317,43	155-156	colorless needles
Z-38-2782		C ₂₂ H ₁₈ ClN ₃ S ₂	423,99	158-159	yellowish needles

Z-39-3144		C ₁₈ H ₁₉ ClN ₄ O	342,83	218-220	colorless crystals
Z-39-3145		C ₂₂ H ₂₀ N ₄ O	356,43	200-202	colorless crystals
Z-39-3370		C ₃₀ H ₂₅ ClN ₄ O ₃	525,01	240-243	colorless crystals
Z-39-3372		C ₂₇ H ₂₇ FN ₄ OS	474,60	173-175	cream-colored crystals
Z-40-3396		C ₂₂ H ₂₂ N ₂ O ₃	362,43	163-164	colorless crystals
Z-41-3401		C ₃₁ H ₂₉ ClN ₄	493,06	112-116	colorless crystals

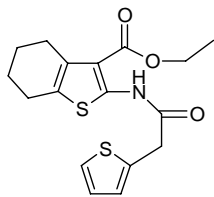
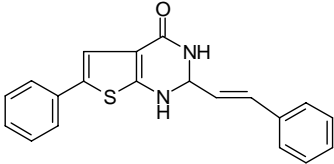
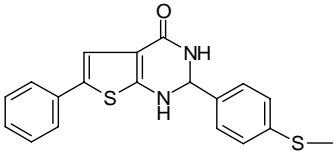
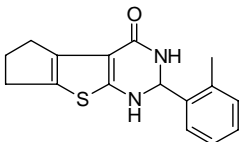
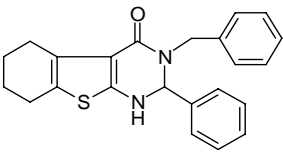
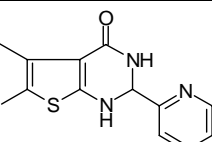
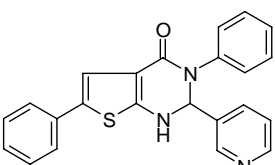
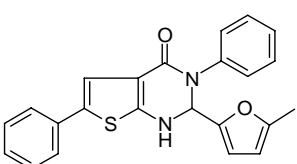
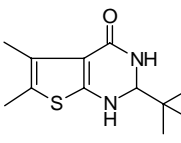
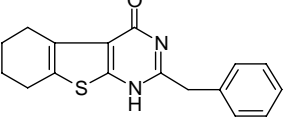
Z-42-3383		C ₂₆ H ₂₁ ClF ₃ N ₃ O ₂	499,92	135-136	colorless crystals
Z-42-3385		C ₂₈ H ₂₆ ClN ₃ O ₃	487,99	139-142	colorless crystals
Z-43-2641		C ₁₈ H ₁₉ N ₃ O ₂ S	341,44	185-186	colorless crystals
Z-43-2642		C ₁₇ H ₁₈ N ₂ O ₂ S ₂	346,47	205-210	colorless crystals
Z-43-2652		C ₁₆ H ₁₅ ClN ₂ O ₃ S	350,83	209-211	colorless crystals
Z-43-2656		C ₁₇ H ₁₇ N ₃ O ₂ S	327,41	204-206	colorless crystals
Z-44-2670		C ₁₇ H ₁₆ N ₂ O ₂ S ₂	328,46	176-179	yellowish crystals

Z-45-2674		C ₁₄ H ₁₄ N ₂ O ₂ S	274,34	186-187	pale yellow needles
Z-45-2677		C ₁₅ H ₁₈ N ₂ O ₂ S	274,39	115-116	yellow crystals
Z-45-2678		C ₁₀ H ₅ Cl ₂ NOS	258,13	117-118	salmon-pink needles
Z-45-2679		C ₁₀ H ₆ ClNO ₂ S	239,68	178-182	pale yellow crystals
Z-45-2684		C ₁₆ H ₁₇ ClN ₂ O ₂ S	320,84	134-135	orange-yellow crystals
Z-45-2689		C ₁₈ H ₁₅ N ₃ O ₃ S	353,40	165-169	yellow crystals
Z-45-2795		C ₁₈ H ₁₄ ClNOS ₂	359,90	131-132	orange needles
Z-45-2797		C ₁₅ H ₉ ClN ₂ O ₂ S ₂	332,83	167-168	pale yellow crystals

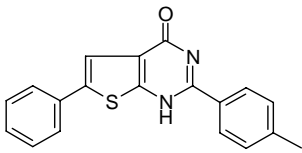
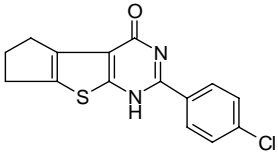
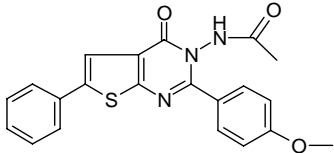
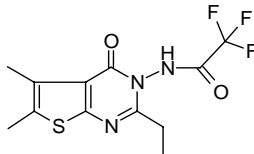
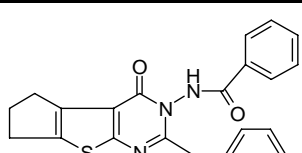
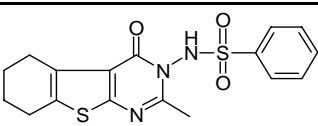
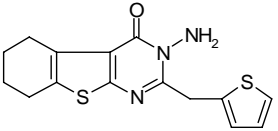
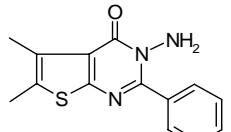
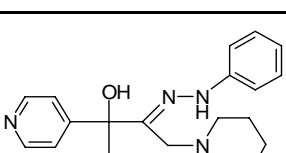
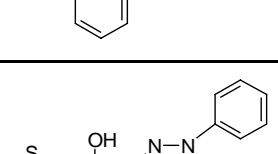
Z. SELECTED NON-PHOSPHORUS COMPOUNDS.xls

Z-45-2799		C ₁₇ H ₁₂ ClNOS ₂	345,87	186-187	salmon-pink crystals
Z-45-2802		C ₁₇ H ₁₃ NO ₂ S ₂	327,43	161-163	yellowish plates
Z-45-2806		C ₁₈ H ₁₅ NO ₃ S ₂	357,45	186-191	pale yellow crystals
Z-45-2807		C ₁₆ H ₁₀ ClNO ₃ S ₂	363,84	228-229	pale yellow crystals
Z-46-B3008		C ₁₂ H ₁₂ F ₃ NO ₃ S	307,29	110-111	colorless needles
Z-46-B3009		C ₁₄ H ₁₇ NO ₃ S	279,36	98-99	colorless crystals
Z-46-B3016		C ₁₆ H ₁₇ NO ₃ S	303,38	101-102	yellowish plates
Z-46-B3022		C ₁₄ H ₁₅ NO ₄ S	293,34	175-176	colorless crystals

Z. SELECTED NON-PHOSPHORUS COMPOUNDS.xls

Z-46-B3023		C17H19NO3S2	349,47	107-108	colorless crystals
Z-47-2821		C20H16N2OS	332,43	205-208	red crystals
Z-47-2823		C19H16N2OS2	352,48	206-212	yellow crystals
Z-47-2825		C16H16N2OS	284,38	225-231	yellow needles
Z-47-2829		C23H22N2OS	374,51	149-150	pale yellow needles
Z-47-2833		C13H13N3OS	259,33	200-205	pale yellow needles
Z-47-2835		C23H17N3OS	383,48	224-225	pale yellow needles
Z-47-2837		C23H18N2O2S	386,48	227-228	brick-red needles
Z-48-2841		C12H18N2OS	238,35	163-164	colorless crystals
Z-48-2843		C17H16N2OS	296,39	187-188	colorless crystals

Z. SELECTED NON-PHOSPHORUS COMPOUNDS.xls

Z-48-2848		C ₁₉ H ₁₄ N ₂ O ₂ S	318,40	257-259	pale yellow crystals
Z-48-2850		C ₁₅ H ₁₁ ClN ₂ O ₂ S	302,78	259-262	colorless crystals
Z-49-2853		C ₂₁ H ₁₇ N ₃ O ₃ S	391,45	260-270	pale yellow needles
Z-49-2855		C ₁₂ H ₁₂ F ₃ N ₃ O ₂ S	319,31	171-172	colorless crystals
Z-49-2869		C ₂₃ H ₁₉ N ₃ O ₂ S	401,49	179-181	colorless crystals
Z-49-2873		C ₁₇ H ₁₇ N ₃ O ₃ S ₂	375,47	247-252	colorless crystals
Z-49-3565		C ₁₅ H ₁₅ N ₃ O ₂ S ₂	317,43	201-202	colorless crystals
Z-49-B3124		C ₁₄ H ₁₃ N ₃ O ₂ S	271,34	175-176	colorless needles
Z-50-2513		C ₂₅ H ₂₈ N ₄ O	400,53	123-125	cream-colored crystals
Z-50-2515		C ₂₄ H ₂₇ N ₃ O ₂ S	405,57	100-101	cream-colored crystals

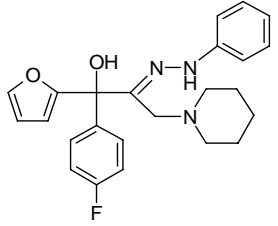
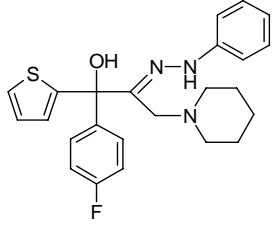
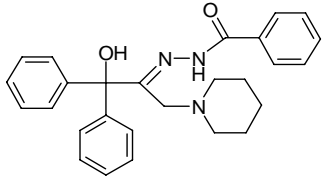
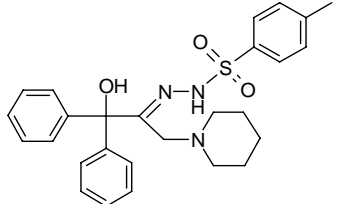
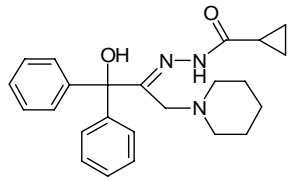
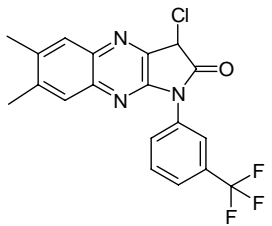
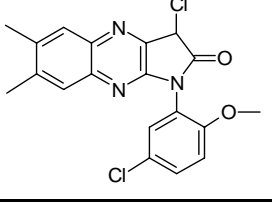
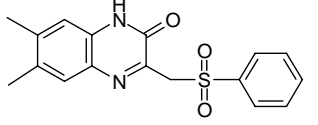
Z. SELECTED NON-PHOSPHORUS COMPOUNDS.xls

Z-50-2700		C ₂₉ H ₃₅ N ₃ O ₃	473,62	130-131	cream-colored crystals
Z-50-2709		C ₂₆ H ₂₇ F ₃ N ₄ O	468,53	116-117	colorless crystals
Z-50-2741		C ₂₈ H ₃₂ ClN ₃ O	462,04	135-136	colorless crystals
Z-50-2756		C ₂₀ H ₂₅ N ₃ O	323,44	134-135	colorless crystals
Z-50-2757		C ₁₆ H ₂₄ N ₄ O ₂	304,40	162-163	colorless crystals
Z-50-2878		C ₂₁ H ₃₅ N ₃ O	345,53	125-126	colorless crystals
Z-50-2879		C ₂₁ H ₃₃ N ₃ O	343,52	145-146	colorless crystals
Z-50-2880		C ₂₀ H ₃₃ N ₃ O	331,51	142-143	colorless crystals
Z-50-2885		C ₂₁ H ₃₅ N ₃ O	345,53	75-76	cream-colored crystals

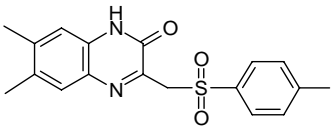
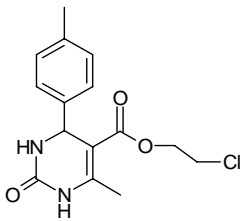
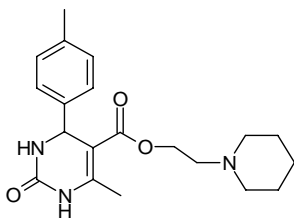
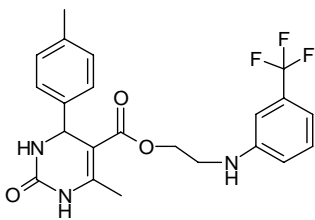
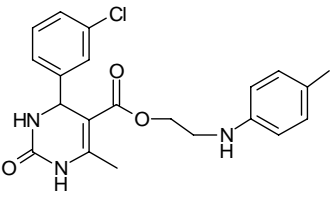
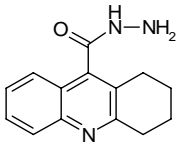
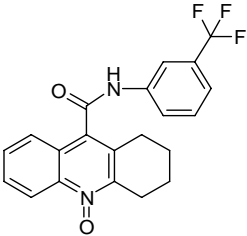
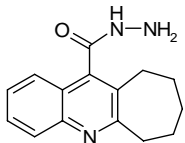
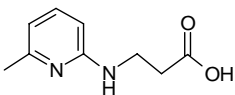
Z. SELECTED NON-PHOSPHORUS COMPOUNDS.xls

Z-50-2894		C ₂₀ H ₂₉ ClF ₃ N ₃ O	419,92	91-93	colorless crystals
Z-50-2896		C ₂₅ H ₃₅ N ₃ O	393,58	96-99	colorless crystals
Z-50-2906		C ₁₉ H ₃₁ N ₃ O	317,48	103-105	colorless crystals
Z-50-2909		C ₂₆ H ₂₉ FN ₄ O	432,55	125-126	cream-colored crystals
Z-50-2917		C ₂₃ H ₃₂ N ₄ O	380,54	109-111	yellowish crystals
Z-50-2918		C ₂₃ H ₃₂ N ₄ O	380,54	122-126	yellowish crystals
Z-50-2919		C ₂₄ H ₃₄ N ₄ O	394,56	157-159	colorless crystals
Z-50-2927		C ₁₈ H ₃₅ N ₃ O ₂	325,50	138-141	colorless crystals
Z-50-2928		C ₂₀ H ₃₁ N ₃ O ₂	345,49	76-85	colorless crystals

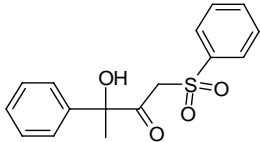
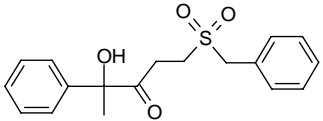
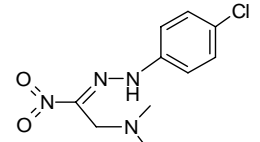
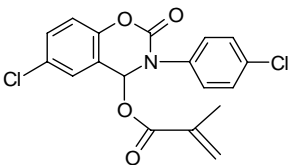
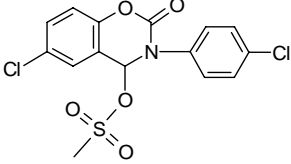
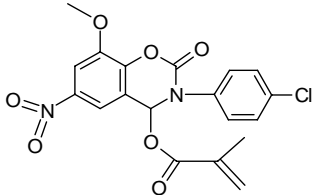
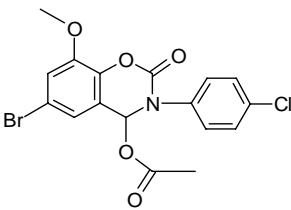
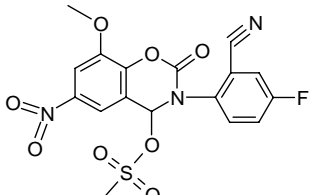
Z. SELECTED NON-PHOSPHORUS COMPOUNDS.xls

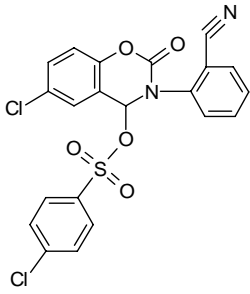
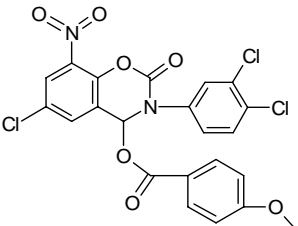
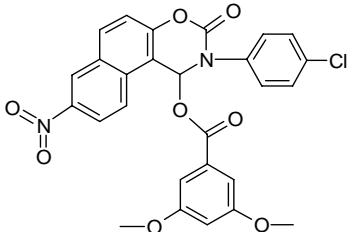
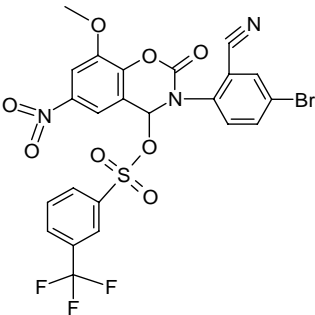
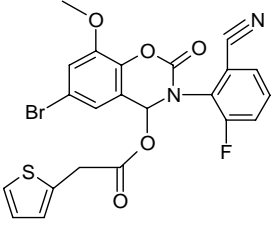
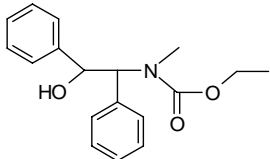
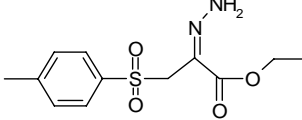
Z-50-2929		C24H26FN3O2	407,49	56-69	colorless crystals
Z-50-2932		C24H26FN3OS	423,56	123-125	colorless crystals
Z-50-2935		C27H29N3O2	427,55	80-84	colorless crystals
Z-50-2936		C27H31N3O3S	477,63	119-120	colorless crystals
Z-50-2937		C24H29N3O2	391,52	175-176	colorless crystals
Z-51-1442		C19H13ClF3N3O	391,78	234-236	yellow solid
Z-51-1464		C19H15Cl2N3O2	388,26	over 260	yellow solid
Z-52-1985		C17H16N2O3S	328,39	250-252	beige plates

Z. SELECTED NON-PHOSPHORUS COMPOUNDS.xls

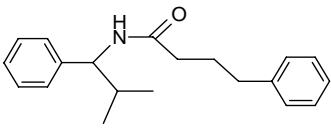
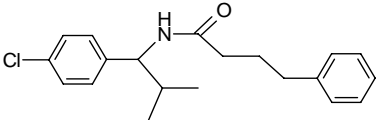
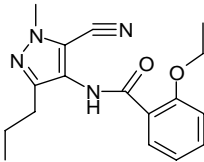
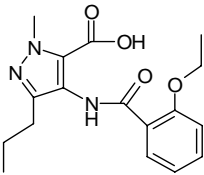
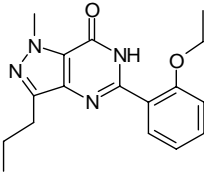
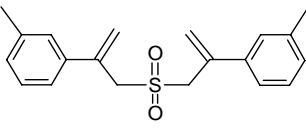
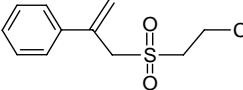
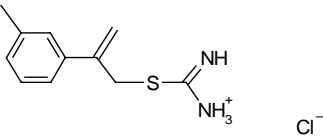
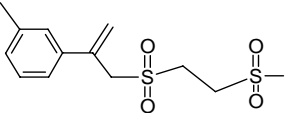
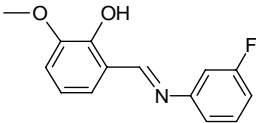
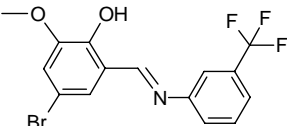
Z-52-1986		C ₁₈ H ₁₈ N ₂ O ₃ S	342,42	253-255	beige plates
Z-53-2055		C ₁₅ H ₁₇ ClN ₂ O ₃	308,77	193-196	colorless crystals
Z-53-2056		C ₂₀ H ₂₇ N ₃ O ₃	357,46	151-154	cream-colored crystals
Z-53-2057		C ₂₂ H ₂₂ F ₃ N ₃ O ₃	433,43	179-182	colorless crystals
Z-53-2058		C ₂₁ H ₂₂ ClN ₃ O ₃	399,88	146-148	colorless crystals
Z-54-1934		C ₁₄ H ₁₅ N ₃ O	241,30	277-278	colorless crystals
Z-54-1939		C ₂₁ H ₁₇ F ₃ N ₂ O ₂	386,38	272-274	pale yellow crystals
Z-54-1942		C ₁₅ H ₁₇ N ₃ O	255,32	270-271	colorless crystals
Z-55-L018		C ₉ H ₁₂ N ₂ O ₂	180,21	153-155	colorless crystals

Z. SELECTED NON-PHOSPHORUS COMPOUNDS.xls

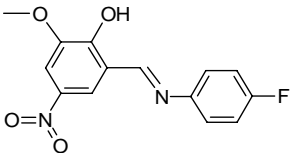
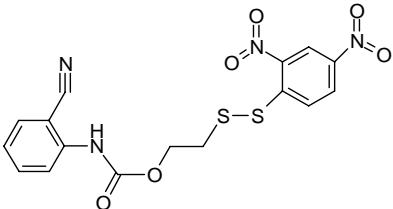
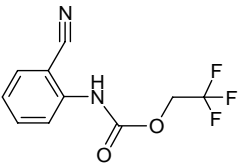
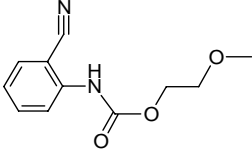
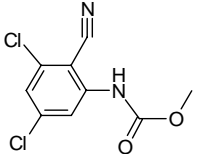
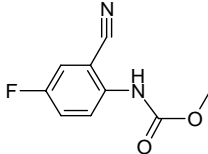
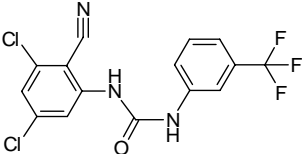
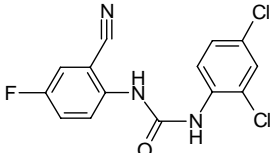
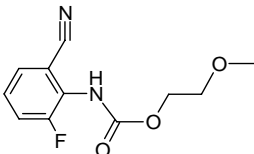
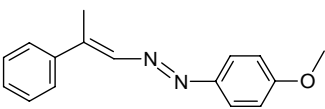
Z-56-3222		C16H16O4S	304,37	83-85	pale yellow crystals
Z-56-3453		C18H20O4S	332,42	79-81	colorless crystals
Z-57-3591		C10H13ClN4O2	256,69	88-89	orange-red crystals
Z-58-1473		C18H13Cl2NO4	378,21	136-137	colorless needles
Z-58-1474		C15H11Cl2NO5S	388,23	101-102	colorless needles
Z-58-1476		C19H15ClN2O7	418,79	190-192	colorless needles
Z-58-1477		C17H13BrClNO5	426,65	128-129	colorless needles
Z-58-1478		C17H12FN3O8S	437,36	204-205	colorless needles

Z-58-1487		C ₂₁ H ₁₂ Cl ₂ N ₂ O ₅ S	475,31	94-96	yellowish crystals
Z-58-1493		C ₂₂ H ₁₃ Cl ₃ N ₂ O ₇	523,72	154-155	cream-colored needles
Z-58-1496		C ₂₇ H ₁₉ ClN ₂ O ₈	534,91	241-242	pale yellow needles
Z-58-1500		C ₂₃ H ₁₃ BrF ₃ N ₃ O ₈ S	628,34	197-199	colorless crystals
Z-58-B1717		C ₂₂ H ₁₄ BrFN ₂ O ₅ S	517,33	160-168	pale yellow crystals
Z-59-0171		C ₁₈ H ₂₁ NO ₃	299,37	84-85	colorless crystals isomer treo
Z-60-1981		C ₁₂ H ₁₆ N ₂ O ₄ S	284,34	159-161	cream-colored crystals

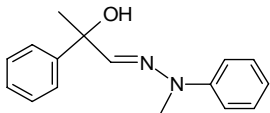
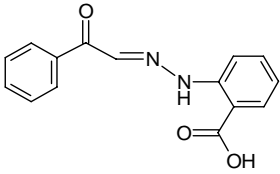
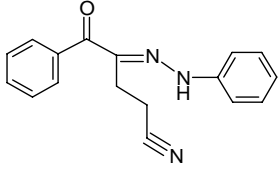
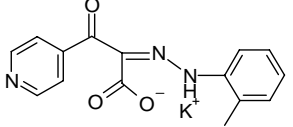
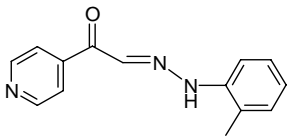
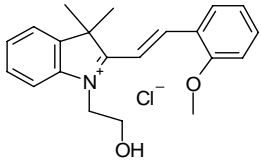
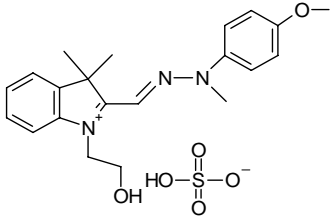
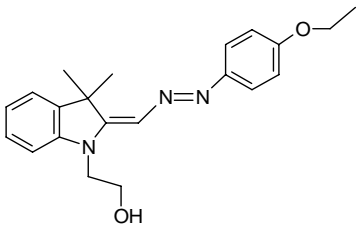
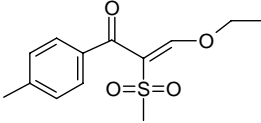
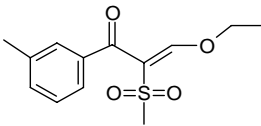
Z. SELECTED NON-PHOSPHORUS COMPOUNDS.xls

Z-61-1317		C ₂₀ H ₂₅ NO	295,43	96-99	colorless crystals
Z-61-1318		C ₂₀ H ₂₄ ClNO	329,87	122-123	colorless needles
Z-62-3607		C ₁₇ H ₂₀ N ₄ O ₂	312,37	135-138	colorless needles
Z-62-3608		C ₁₇ H ₂₁ N ₃ O ₄	331,37	181-188	cream-colored needles
Z-62-3609		C ₁₇ H ₂₀ N ₄ O ₂	312,37	139-143	colorless crystals
Z-63-1522		C ₂₀ H ₂₂ O ₂ S	326,46	70-71	colorless plates
Z-63-1524		C ₁₁ H ₁₃ ClO ₂ S	244,74	43-45	colorless crystals
Z-63-1715		C ₁₁ H ₁₅ ClN ₂ S	242,77	137-139	colorless crystals
Z-63-L024		C ₁₃ H ₁₈ O ₄ S ₂	302,41	136-138	colorless crystals
Z-64-0703		C ₁₄ H ₁₂ FNO ₂	245,26	95-96	orange needles
Z-64-0707		C ₁₅ H ₁₁ BrF ₃ NO ₂	374,16	110-112	orange-yellow needles

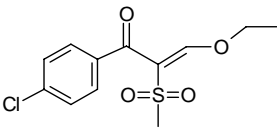
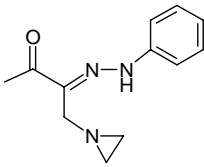
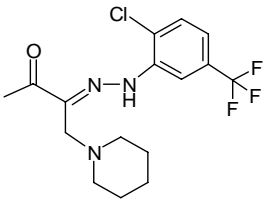
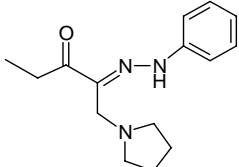
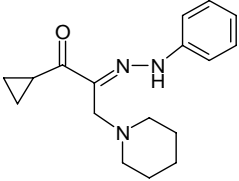
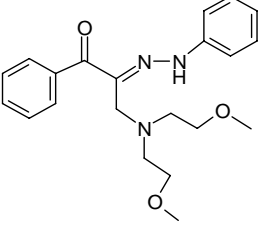
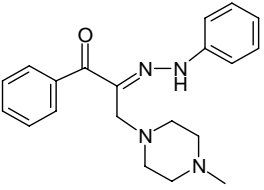
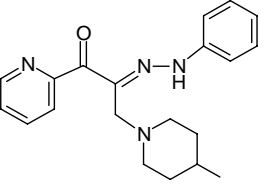
Z. SELECTED NON-PHOSPHORUS COMPOUNDS.xls

Z-64-0721		C ₁₄ H ₁₁ FN ₂ O ₄	290,25	200-202	orange needles
Z-65-0733		C ₁₆ H ₁₂ N ₄ O ₆ S ₂	420,43	165-166	yellow needles
Z-65-0755		C ₁₀ H ₇ F ₃ N ₂ O ₂	244,17	107-109	colorless crystals
Z-65-0757		C ₁₁ H ₁₂ N ₂ O ₃	220,23	74-75	colorless needles
Z-65-0793		C ₉ H ₆ Cl ₂ N ₂ O ₂	245,07	148-149	colorless needles
Z-65-0795		C ₉ H ₇ FN ₂ O ₂	194,17	144-145	colorless needles
Z-65-0799		C ₁₅ H ₈ Cl ₂ F ₃ N ₃ O	374,15	222-225	colorless needles
Z-65-0800		C ₁₄ H ₈ Cl ₂ FN ₃ O	324,14	188-189	colorless needles
Z-65-0801		C ₁₁ H ₁₁ FN ₂ O ₃	238,22	98-99	colorless needles
Z-66-0366		C ₁₆ H ₁₆ N ₂ O	252,32	115-117	orange crystals

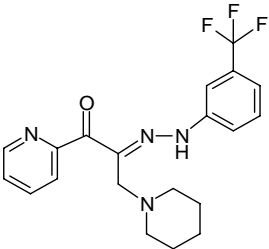
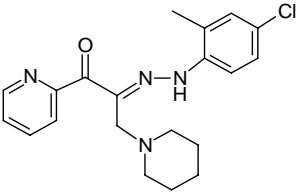
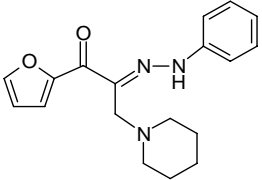
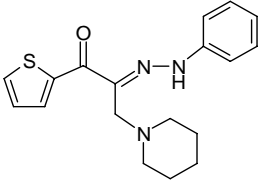
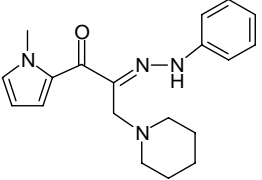
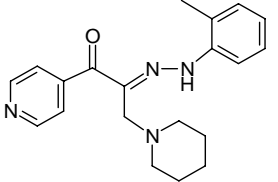
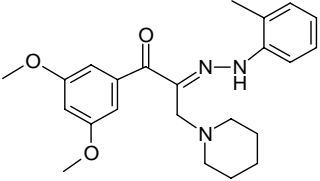
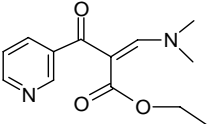
Z. SELECTED NON-PHOSPHORUS COMPOUNDS.xls

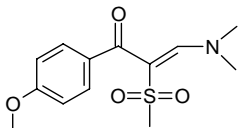
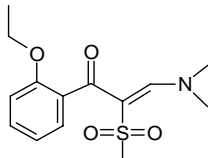
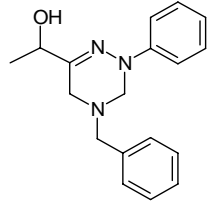
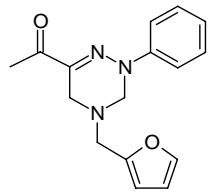
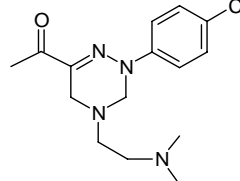
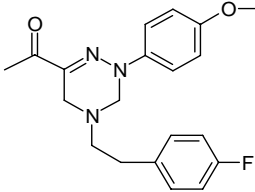
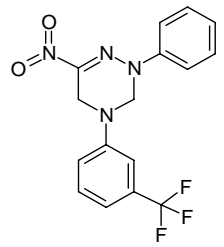
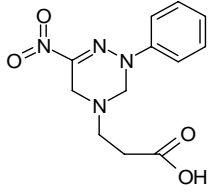
Z-66-0368		C ₁₆ H ₁₈ N ₂ O	254,33	71-73	pale yellow crystals
Z-66-0695		C ₁₅ H ₁₂ N ₂ O ₃	268,27	210-212	pale yellow crystals
Z-66-0700		C ₁₇ H ₁₅ N ₃ O	277,33	188-189	orange needles
Z-66-2984		C ₁₅ H ₁₂ KN ₃ O ₃	321,38	202-204	pale yellow crystals
Z-66-3010		C ₁₄ H ₁₃ N ₃ O	239,28	108-109	orange needles
Z-67-0250		C ₂₁ H ₂₄ ClNO ₂	357,88	189-190	orange crystals
Z-67-1278		C ₂₁ H ₂₇ N ₃ O ₆ S	449,53	150-152	orange crystals
Z-67-1290		C ₂₁ H ₂₅ N ₃ O ₂	351,45	151-155	orange needles
Z-68-B6618		C ₁₃ H ₁₆ O ₄ S	268,33	106-110	colorless needles
Z-68-B6619		C ₁₃ H ₁₆ O ₄ S	268,33	83-84	colorless needles

Z. SELECTED NON-PHOSPHORUS COMPOUNDS.xls

Z-68-B-6621		C ₁₂ H ₁₃ ClO ₄ S	288,75	112-113	colorless needles
Z-69-3033		C ₁₂ H ₁₅ N ₃ O	217,27	68-69	yellowish crystals
Z-69-3051		C ₁₆ H ₁₉ ClF ₃ N ₃ O	361,80	104-109	yellow needles
Z-69-3054		C ₁₅ H ₂₁ N ₃ O	259,35	45-46	cream-colored crystals
Z-69-3057		C ₁₇ H ₂₃ N ₃ O	285,39	121-127	yellowish crystals
Z-69-3059		C ₂₁ H ₂₇ N ₃ O ₃	369,47	56-57	pale yellow crystals
Z-69-3070		C ₂₀ H ₂₄ N ₄ O	336,44	105-106	pale yellow crystals
Z-69-3084		C ₂₀ H ₂₄ N ₄ O	336,44	96-97	light yellow crystals

Z. SELECTED NON-PHOSPHORUS COMPOUNDS.xls

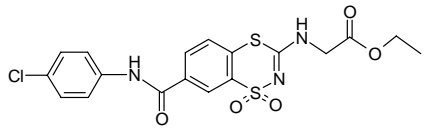
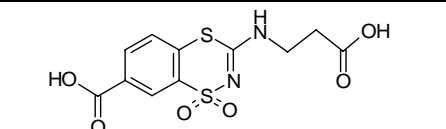
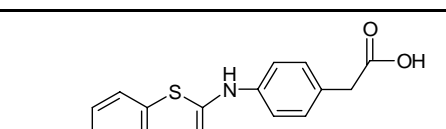
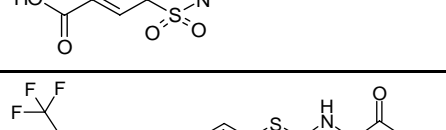
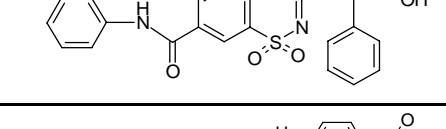
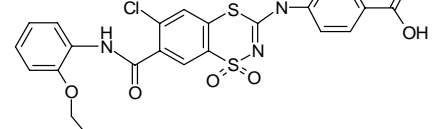
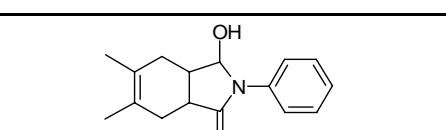
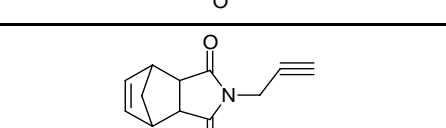
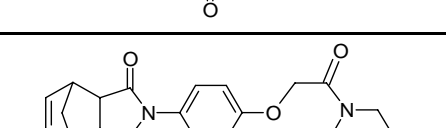
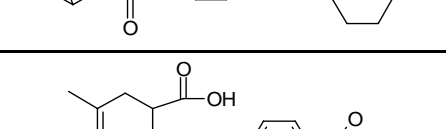
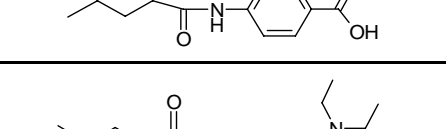
Z-69-3094		C ₂₀ H ₂₁ F ₃ N ₄ O	390,41	144-146	pale yellow crystals
Z-69-3096		C ₂₀ H ₂₃ ClN ₄ O	370,89	141-143	yellow plates
Z-69-3100		C ₁₈ H ₂₁ N ₃ O ₂	311,39	142-144	light yellow needles
Z-69-3102		C ₁₈ H ₂₁ N ₃ OS	327,45	81-82	yellow crystals
Z-69-3103		C ₁₉ H ₂₄ N ₄ O	324,43	94-96	yellow needles
Z-69-3105		C ₂₀ H ₂₄ N ₄ O	336,44	100-101	pale yellow crystals
Z-69-3553		C ₂₃ H ₂₉ N ₃ O ₃	395,51	116-117	pale yellow crystals
Z-70-B7150		C ₁₃ H ₁₆ N ₂ O ₃	248,28	57-58	yellow crystals

Z-70-B7284		C13H17NO4S	283,35	165-168	yellowish crystals
Z-70-B7285		C14H19NO4S	297,38	94-96	pale yellow crystals
Z-71-1214		C18H21N3O	295,39	90-91	colorless crystals
Z-71-1736		C16H17N3O2	283,33	72-73	colorless crystals
Z-71-1742		C15H21ClN4O	308,81	82-83	cream-colored crystals
Z-71-1748		C20H22FN3O2	355,42	80-81	red crystals
Z-71-1780		C16H13F3N4O2	350,30	116-117	orange needles
Z-71-1781		C12H14N4O4	278,27	152-153	yellow crystals

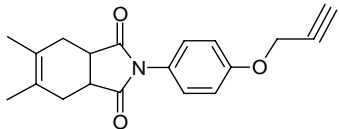
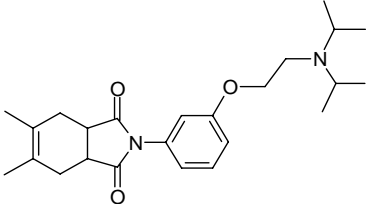
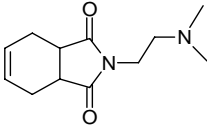
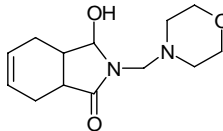
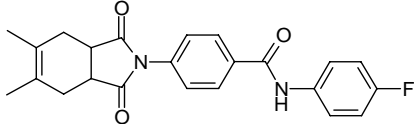
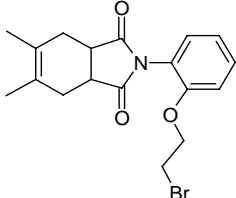
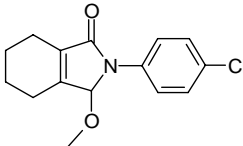
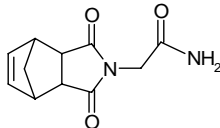
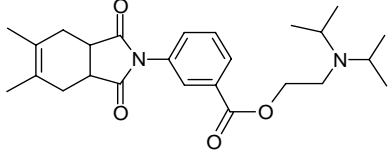
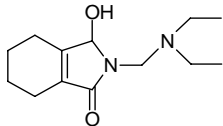
Z. SELECTED NON-PHOSPHORUS COMPOUNDS.xls

Z-71-2256		C19H18ClN3O	339,83	146-147	pale yellow needles
Z-71-2264		C14H14N4O3	286,29	133-136	brick-red crystals
Z-71-3554		C29H32N6O	480,62	132-133	yellow needles
Z-72-3610		C8H5NO4S3	275,33	219-220	colorless crystals
Z-72-3615		C9H6ClNO4S3	323,80	226-230	colorless crystals
Z-72-3620		C12H14N2O3S3	330,45	193-199	colorless crystals
Z-72-3622		C17H16N2O3S3	392,52	185-188	colorless crystals
Z-72-3623		C13H13ClN2O4S3	392,90	165-169	colorless crystals
Z-72-3624		C14H12N2O4S3	368,45	168-170	colorless plates
Z-72-3628		C16H11F3N2O3S3	432,46	223-228	colorless crystals
Z-72-3629		C17H15ClN2O4S3	442,97	197-202	colorless crystals

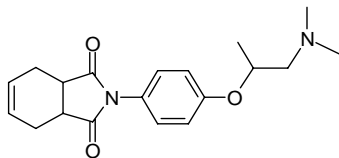
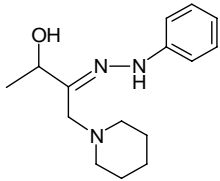
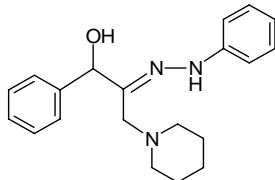
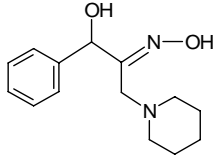
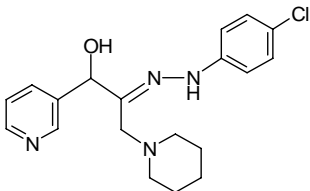
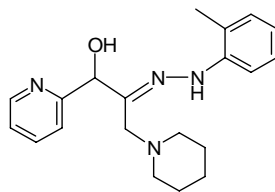
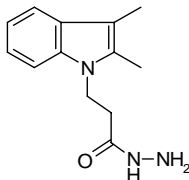
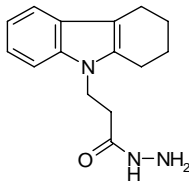
Z. SELECTED NON-PHOSPHORUS COMPOUNDS.xls

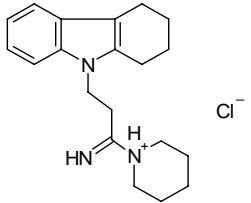
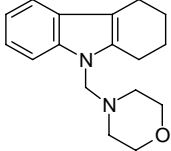
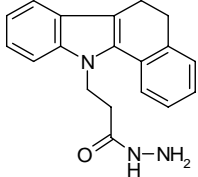
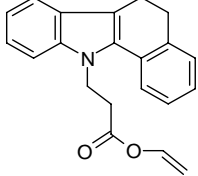
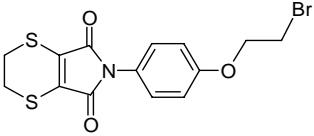
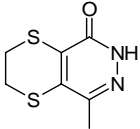
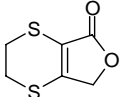
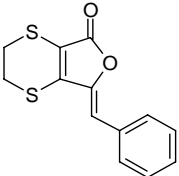
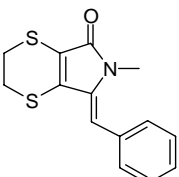
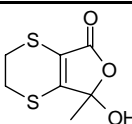
Z-72-3631		C18H16ClN3O5S2	453,93	245-251	colorless crystals
Z-72-3632		C11H10N2O6S2	330,34	238-243	colorless crystals
Z-72-3633		C16H12N2O6S2	392,41	over 260	colorless crystals
Z-72-3634		C23H16F3N3O5S2	535,52	253-255	colorless crystals
Z-72-3636		C23H18ClN3O6S2	532,00	300-306	colorless crystals
Z-73-0071		C16H19NO2	257,34	138-140	colorless crystals
Z-73-0156		C12H11NO2	201,23	97-98	colorless crystals
Z-73-0165		C22H24N2O4	380,45	171-172	colorless crystals
Z-73-0227		C17H19NO5	317,34	184-186	colorless crystals
Z-73-0233		C21H26N2O3	354,45	135-137	colorless crystals
Z-73-0441		C25H34N2O4	426,56	95-97	colorless needles

Z. SELECTED NON-PHOSPHORUS COMPOUNDS.xls

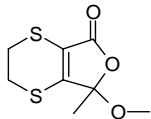
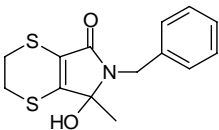
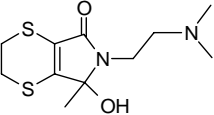
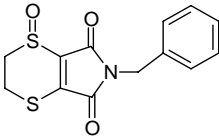
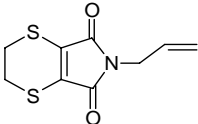
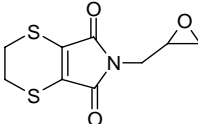
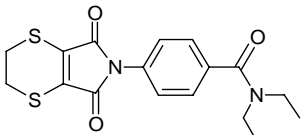
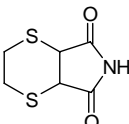
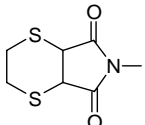
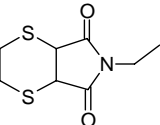
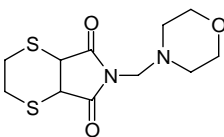
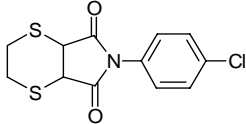
Z-73-0443		C ₁₉ H ₁₉ NO ₃	309,37	116-118	colorless crystals
Z-73-0449		C ₂₄ H ₃₄ N ₂ O ₃	398,55	59-61	colorless crystals
Z-73-0454		C ₁₂ H ₁₈ N ₂ O ₂	222,29	49-50	colorless crystals
Z-73-0457		C ₁₃ H ₂₀ N ₂ O ₃	252,32	138-139	colorless crystals
Z-73-0746		C ₂₃ H ₂₁ FN ₂ O ₃	392,43	204-205	colorless crystals
Z-73-0750		C ₁₈ H ₂₀ BrNO ₃	378,27	87-89	colorless crystals
Z-73-0772		C ₁₅ H ₁₆ ClNO ₂	277,75	86-88	colorless needles
Z-73-0780		C ₁₁ H ₁₂ N ₂ O ₃	220,23	172-173	colorless crystals
Z-73-1243		C ₂₅ H ₃₄ N ₂ O ₄	426,56	74-76	colorless crystals
Z-73-1258		C ₁₃ H ₂₂ N ₂ O ₂	238,33	154-157	colorless crystals

Z. SELECTED NON-PHOSPHORUS COMPOUNDS.xls

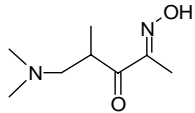
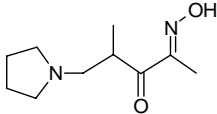
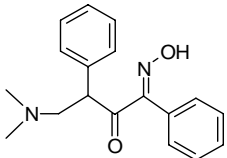
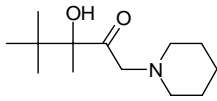
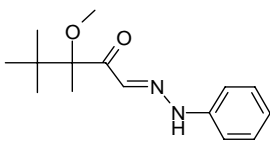
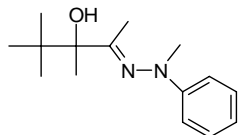
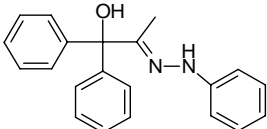
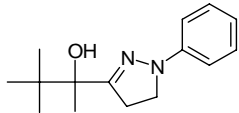
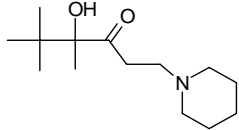
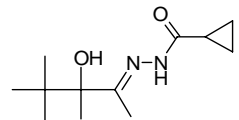
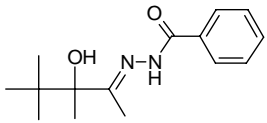
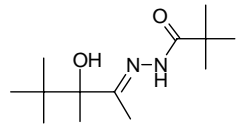
Z-73-2990		C ₁₉ H ₂₄ N ₂ O ₃	328,41	90-94	colorless crystals
Z-74-1209		C ₁₅ H ₂₃ N ₃ O	261,37	99-100	cream-colored crystals
Z-74-1218		C ₂₀ H ₂₅ N ₃ O	323,44	149-150	cream-colored crystals
Z-74-1219		C ₁₄ H ₂₀ N ₂ O ₂	248,33	113-114	colorless crystals
Z-74-1222		C ₁₉ H ₂₃ ClN ₄ O	358,87	147-148	cream-colored crystals
Z-74-2754		C ₂₀ H ₂₆ N ₄ O	338,46	85-87	cream-colored crystals
Z-75-0178		C ₁₃ H ₁₇ N ₃ O	231,30	133-135	colorless crystals
Z-75-0193		C ₁₅ H ₁₉ N ₃ O	257,34	133-138	colorless crystals

Z-75-0203		C ₂₀ H ₂₈ ClN ₃	345,92	217-218	cream-colored crystals
Z-75-0205		C ₁₇ H ₂₂ N ₂ O	270,38	68-70	colorless crystals
Z-75-0480		C ₁₉ H ₁₉ N ₃ O	305,38	131-133	cream-colored crystals
Z-75-0485		C ₂₁ H ₁₉ NO ₂	317,39	118-119	colorless plates
Z-76-1143		C ₁₄ H ₁₂ BrNO ₃ S ₂	386,29	207-210	pale yellow crystals
Z-76-2301		C ₇ H ₈ N ₂ O ₂ S ₂	200,28	297-300	colorless crystals
Z-76-2303		C ₆ H ₆ O ₂ S ₂	174,24	142-143	colorless crystals
Z-76-2304		C ₁₃ H ₁₀ O ₂ S ₂	262,35	149-151	pale yellow needles
Z-76-2305		C ₁₄ H ₁₃ NOS ₂	275,39	122-125	yellow crystals
Z-76-2308		C ₇ H ₈ O ₃ S ₂	204,27	194-196	colorless crystals

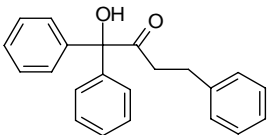
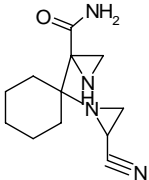
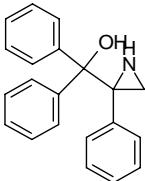
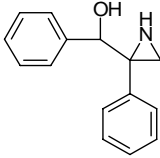
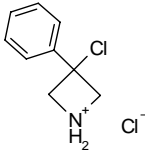
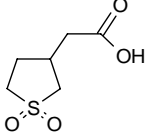
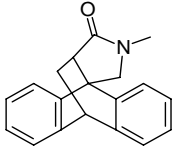
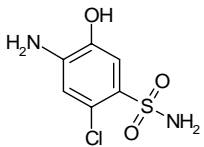
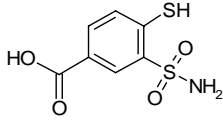
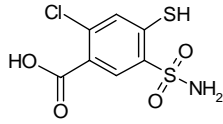
Z. SELECTED NON-PHOSPHORUS COMPOUNDS.xls

Z-76-2315		C8H10O3S2	218,30	118-120	colorless crystals
Z-76-2316		C14H15NO2S2	293,41	161-163	colorless crystals
Z-76-2318		C11H18N2O2S2	274,41	193-195	colorless needles
Z-76-2320		C13H11NO3S2	293,37	154-156	pale yellow crystals
Z-76-2322		C9H9NO2S2	227,31	155-156	pale yellow crystals
Z-76-2326		C9H9NO3S2	243,30	151-153	orange-yellow needles
Z-76-2338		C17H18N2O3S2	362,47	191-192	pale yellow needles
Z-76-2355		C6H7NO2S2	189,26	201-206	colorless crystals
Z-76-2356		C7H9NO2S2	203,28	91-93	colorless crystals
Z-76-2357		C8H11NO2S2	217,31	125-127	colorless plates
Z-76-2360		C11H16N2O3S2	288,39	179-180	colorless crystals
Z-76-2363		C12H10ClNO2S2	299,80	176-177	colorless needles

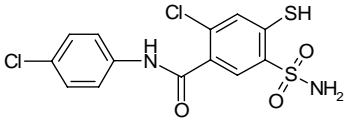
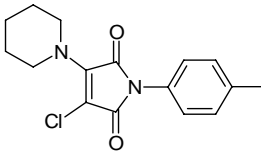
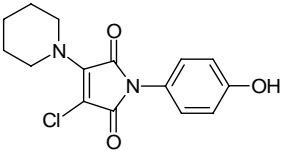
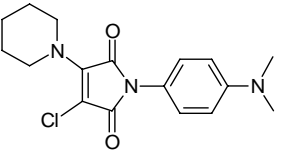
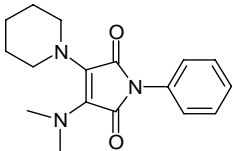
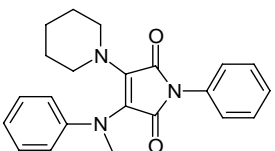
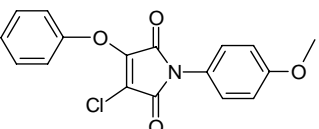
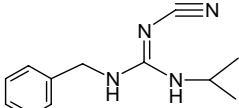
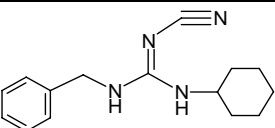
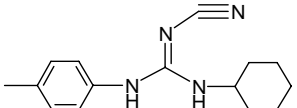
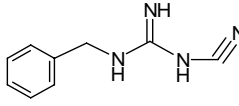
Z. SELECTED NON-PHOSPHORUS COMPOUNDS.xls

Z-77-0085		C ₈ H ₁₆ N ₂ O ₂	172,23	101-104	colorless crystals
Z-77-0100		C ₁₀ H ₁₈ N ₂ O ₂	198,27	107-109	colorless crystals
Z-77-0429		C ₁₈ H ₂₀ N ₂ O ₂	296,37	140-142	colorless crystals
Z-78-2922		C ₁₃ H ₂₅ N ₂ O	227,35	66-67	colorless crystals
Z-78-2923		C ₁₅ H ₂₂ N ₂ O ₂	262,35	130-132	pale yellow crystals
Z-78-2924		C ₁₅ H ₂₄ N ₂ O	248,37	59-60	colorless plates
Z-78-2938		C ₂₁ H ₂₀ N ₂ O	316,41	110-112	orange-red crystals
Z-78-2941		C ₁₅ H ₂₂ N ₂ O	246,36	75-77	colorless crystals
Z-78-2977		C ₁₄ H ₂₇ N ₂ O	241,38	46-49	colorless crystals
Z-78-2978		C ₁₂ H ₂₂ N ₂ O ₂	226,32	109-111	colorless crystals
Z-78-2979		C ₁₅ H ₂₂ N ₂ O ₂	262,35	110-112	colorless crystals
Z-78-2980		C ₁₃ H ₂₆ N ₂ O ₂	242,36	116-119	colorless crystals

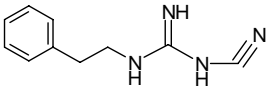
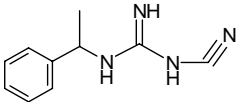
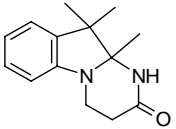
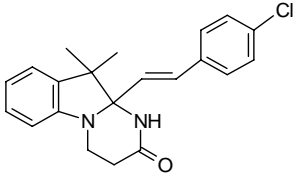
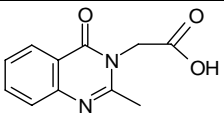
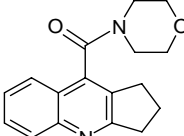
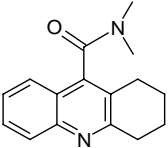
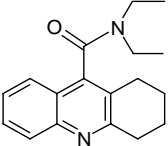
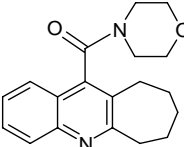
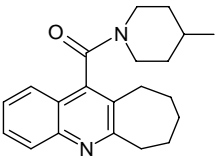
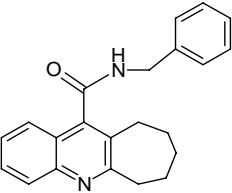
Z. SELECTED NON-PHOSPHORUS COMPOUNDS.xls

Z-78-B3314		C ₂₂ H ₂₀ O ₂	316,40	83-85	colorless crystals
Z-79-0048		C ₁₂ H ₁₈ N ₄ O	234,30	181-183	colorless crystals
Z-79-0090		C ₂₁ H ₁₉ NO	301,39	114-117	colorless crystals
Z-79-0413		C ₁₅ H ₁₅ NO	225,29	121-122	colorless crystals
Z-80-0407		C ₉ H ₁₁ Cl ₂ N	204,10	158-160	colorless crystals
Z-81-B2025		C ₆ H ₁₀ O ₄ S	178,21	88-90	colorless crystals
Z-82-0051		C ₁₉ H ₁₇ NO	275,35	136-138	colorless needles
Z-83-0424		C ₆ H ₇ ClN ₂ O ₃ S	222,65	216-217	colorless crystals
Z-84-3612		C ₇ H ₇ NO ₄ S ₂	233,27	over 260	colorless crystals
Z-84-3613		C ₇ H ₆ ClNO ₄ S ₂	267,71	over 260	colorless crystals

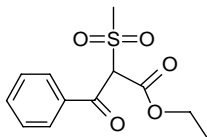
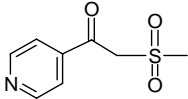
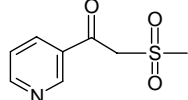
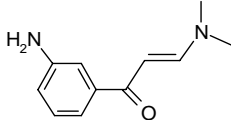
Z. SELECTED NON-PHOSPHORUS COMPOUNDS.xls

Z-84-B4603		C13H10Cl2N2O3S2	377,27	110-116	colorless crystals
Z-85-0306		C16H17ClN2O2	304,78	130-131	yellow needles
Z-85-0310		C15H15ClN2O3	306,75	188-189	yellow plates
Z-85-0313		C17H20ClN3O2	333,82	164-165	orange-red needles
Z-85-2276		C17H21N3O2	299,38	115-117	orange-yellow needles
Z-85-2277		C22H23N3O2	361,45	115-116	orange-yellow needles
Z-85-2350		C17H12ClNO4	329,74	124-127	pale yellow crystals
Z-86-B7406		C12H16N4	216,29	146-148	colorless crystals
Z-86-B7408		C15H20N4	256,35	148-150	colorless crystals
Z-86-B7409		C15H20N4	256,35	149-150	colorless crystals
Z-86-B7410		C9H10N4	174,21	114-115	colorless needles

Z. SELECTED NON-PHOSPHORUS COMPOUNDS.xls

Z-86-B7411		C10H12N4	188,23	118-119	colorless plates
Z-86-B7413		C10H12N4	188,23	128-130	colorless crystals
Z-87-2632		C14H18N2O	230,31	170-171	colorless crystals
Z-87-2634		C21H21ClN2O	352,87	239-240	colorless needles
Z-88-B4568		C11H10N2O3	218,21	257-260	colorless crystals
Z-89-5035		C17H18N2O2	282,35	220-223	cream-colored crystals
Z-89-5036		C16H18N2O	254,33	130-132	cream-colored crystals
Z-89-5037		C18H22N2O	282,39	102-106	cream-colored crystals
Z-89-5038		C19H22N2O2	310,40	146-148	colorless crystals
Z-89-5039		C21H26N2O	322,45	102-104	colorless crystals
Z-89-5040		C22H22N2O	330,43	168-170	cream-colored crystals

Z. SELECTED NON-PHOSPHORUS COMPOUNDS.xls

Z-90-5041		C12H14O5S	270,31	75-77	colorless crystals
Z-90-5044		C8H9NO3S	199,23	104-108	colorless crystals
Z-90-5045		C8H9NO3S	199,23	76-79	colorless crystals
Z-91-5042		C11H14N2O	190,25	107-109	pale yellow crystals