



# PRODUCT LIST 2021

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**1. Alcohol and Phenol Derivatives**

CAS No.	CODE	CHEMICAL NAME	MOLECULAR FORMULA
100-02-7	22410	<i>p</i> -Nitrophenol	C <sub>6</sub> H <sub>5</sub> NO <sub>3</sub>
123-31-9	15400	Hydroquinone	C <sub>6</sub> H <sub>6</sub> O <sub>2</sub>
13036-02-7	13240	Dimethyl 5-hydroxyisophthalate	C <sub>10</sub> H <sub>10</sub> O <sub>5</sub>
143174-04-3	33320	8-Amino-2-(4-hydroxy-3-methylphenyl)azo-1-naphthol-3,6-disulfonic acid disodium salt	C <sub>17</sub> H <sub>15</sub> N <sub>3</sub> O <sub>8</sub> S <sub>2</sub> ·2Na
149-45-1	12200	Disodium pyrocatechol-3,5-disulfonate	C <sub>6</sub> H <sub>4</sub> Na <sub>2</sub> O <sub>8</sub> S <sub>2</sub>
15151-57-2	77000	4-Hydroxy-3-nitro-2(1 <i>H</i> )-quinolinone	C <sub>9</sub> H <sub>6</sub> N <sub>2</sub> O <sub>4</sub>
1663-61-2	09010	Triethylorthobenzoate	C <sub>13</sub> H <sub>10</sub> O <sub>3</sub>
1675-54-3	09540	Bisphenol A Diglycidylether	C <sub>21</sub> H <sub>24</sub> O <sub>4</sub>
2120-70-9	34980	Phenoxyacetaldehyde	C <sub>8</sub> H <sub>8</sub> O <sub>2</sub>
30038-65-4	59740	"1,8(2 <i>H</i> )-dione-4,5,6,7,9-hexahydro-9-(4-hydroxy-3-methoxyphenyl)-3,3,6,6-tetramethyl-1 <i>H</i> -xanthene"	C <sub>24</sub> H <sub>28</sub> O <sub>5</sub>
3010-96-6	74770	2,2,4,4-Tetramethyl-1,3-cyclobutanediol, mix of isomers	C <sub>8</sub> H <sub>16</sub> O <sub>2</sub>
315-44-6	51410	2',4'-Dihydroxy-2,2,2-trifluoroacetophenone	C <sub>8</sub> H <sub>5</sub> F <sub>3</sub> O <sub>3</sub>
32180-75-9	10160	<i>N</i> -[4-(2,4-Di- <i>tert</i> -pentylphenoxy)butyl]-1-hydroxy-2-naphthamide	C <sub>31</sub> H <sub>41</sub> NO <sub>3</sub>
32438-31-6	34890	Phenoxyacetaldehyde diethylacetal	C <sub>12</sub> H <sub>18</sub> O <sub>3</sub>
331861-93-9	59600	Octyl-PTCDI	C <sub>104</sub> H <sub>122</sub> N <sub>2</sub> O <sub>8</sub>
355-80-6	08770	2,2,3,3,4,4,5,5-Octafluoropentanol	C <sub>5</sub> H <sub>4</sub> F <sub>8</sub> O
37275-49-3	34770	Dicyclopentadiene alcohol	C <sub>10</sub> H <sub>14</sub> O
38213-69-3	14920	Bis(maltolato)oxovanadium(IV)	C <sub>12</sub> H <sub>10</sub> O <sub>7</sub> V
576-55-6	01540	3,4,5,6-Tetrabromo- <i>o</i> -cresol	C <sub>7</sub> H <sub>4</sub> Br <sub>4</sub> O
619-08-9	42871	2-Chloro-4-nitrophenol	C <sub>6</sub> H <sub>4</sub> ClNO <sub>3</sub>
67874-68-4	34880	Phenoxyacetaldehyde dimethylacetal	C <sub>10</sub> H <sub>14</sub> O <sub>3</sub>
6935-44-0	36780	Ethyl-alpha-cyano-4-hydroxycinnamate	C <sub>12</sub> H <sub>11</sub> NO <sub>3</sub>
77-08-7	12422	5,5',6,6'-Tetrahydroxy-3,3,3',3'-tetramethyl-1,1'-spirobisindane	C <sub>21</sub> H <sub>24</sub> O <sub>4</sub>
89929-65-7	33910	1,1'-Spiro-bis(3,3-dimethyl-5,6-dipropoxyindane)	C <sub>33</sub> H <sub>48</sub> O <sub>4</sub>
91-04-3	13270	2,6-Bis(hydroxymethyl)- <i>p</i> -cresol	C <sub>9</sub> H <sub>12</sub> O <sub>3</sub>

**2. Amines**

CAS No.	CODE	CHEMICAL NAME	MOLECULAR FORMULA
-	46790	3-Chloro-2,4-trimethyleneglutacondianil hydrobromide	C <sub>20</sub> H <sub>19</sub> ClN <sub>2</sub> ·HBr
-	46970	3-Chloro-2,4-trimethyleneglutacondianil hydroiodide	C <sub>20</sub> H <sub>19</sub> ClN <sub>2</sub> ·HI
100-10-7	20330	4-Dimethylaminobenzaldehyde	C <sub>9</sub> H <sub>11</sub> NO

10061-68-4	63690	<i>N,N'</i> -Diethyltrimethylenediamine	C <sub>7</sub> H <sub>18</sub> N <sub>2</sub>
101-75-7	34860	4-Phenylazodiphenylamine	C <sub>18</sub> H <sub>15</sub> N <sub>3</sub>
104-84-7	83060	4-Methylbenzylamine	C <sub>8</sub> H <sub>11</sub> N
104-86-9	00110	4-Chlorobenzylamine	C <sub>7</sub> H <sub>8</sub> ClN
1075-76-9	44420	3-Anilinopropionitrile	C <sub>9</sub> H <sub>10</sub> N <sub>2</sub> S
1131-01-7	53540	<i>N</i> -(2-Chloroacetyl)-2,6-dimethylaniline	C <sub>10</sub> H <sub>12</sub> ClNO
1137-73-1	09920	<i>N</i> -Phenyliminodiacetic acid	C <sub>10</sub> H <sub>11</sub> NO <sub>4</sub>
140-75-0	00450	4-Fluorobenzylamine	C <sub>7</sub> H <sub>8</sub> FN
143218-70-6	12450	4,4'-Bis[bis(2-hydroxyethyl)amino]-4''-chlorotriptyl chloride	C <sub>27</sub> H <sub>32</sub> ClN <sub>2</sub> O <sub>4</sub> ·Cl
1497-49-0	13710	Glutacondianil hydrochloride	C <sub>17</sub> H <sub>16</sub> N <sub>2</sub> ·HCl
152340-26-6	14510	<i>N,N,N',N'</i> -Tetrakis(4-dibutylaminophenyl)- <i>p</i> -phenylenediaminium hexafluorophosphate	C <sub>62</sub> H <sub>92</sub> N <sub>6</sub> ·PF <sub>6</sub>
17315-76-3	05250	2-Hydroxyglutacondianil hydrochloride	C <sub>17</sub> H <sub>16</sub> N <sub>2</sub> O·HCl
177168-18-2	77280	<i>N</i> -[2,5-Bis(anilinomethylene)cyclopentylidene]- <i>N</i> -phenyl-phenyl-anilinium tetrafluoroborate	C <sub>31</sub> H <sub>28</sub> BF <sub>4</sub> N <sub>3</sub>
17768-41-1	55000	1-(Aminomethyl)adamantane	C <sub>11</sub> H <sub>19</sub> N
1821-27-8	50870	4,4'-Dinitrodiphenylamine	C <sub>12</sub> H <sub>9</sub> N <sub>3</sub> O <sub>4</sub>
19487-71-9	03310	4-(2-Anilino vinyl)-1-ethylquinolinium iodide	C <sub>19</sub> H <sub>19</sub> N <sub>2</sub> ·I
20440-93-1	50860	4,4',4''-Trinitrotriphenylamine	C <sub>18</sub> H <sub>12</sub> N <sub>4</sub> O <sub>6</sub>
2216-92-4	05530	Ethyl <i>N</i> -phenylglycinate	C <sub>10</sub> H <sub>13</sub> NO <sub>2</sub>
23680-84-4	34350	4-Amino-2-chloro-6,7-dimethoxyquinazoline	C <sub>10</sub> H <sub>10</sub> ClN <sub>3</sub> O <sub>2</sub>
2407-68-3	71420	3-(Dimethylamino)acrylnitril	C <sub>5</sub> H <sub>8</sub> N <sub>2</sub>
24796-94-9	17710	Oxazine 1	C <sub>20</sub> H <sub>26</sub> N <sub>3</sub> O·ClO <sub>4</sub>
253267-38-8	39990	<i>N,N,N',N'</i> -Tetrakis[4-bis(3-cyanopropyl)-aminophenyl]- <i>p</i> -phenylenediaminium hexafluorophosphate	C <sub>62</sub> H <sub>68</sub> N <sub>14</sub> ·PF <sub>6</sub>
253267-46-8	39980	<i>N,N,N',N'</i> -Tetrakis[4-bis(3-cyanopropyl)-aminophenyl]- <i>p</i> -phenylenediaminium dihexafluorophosphate	C <sub>62</sub> H <sub>68</sub> N <sub>14</sub> ·2PF <sub>6</sub>
28140-60-5	45410	Malondianil hydrochloride	C <sub>15</sub> H <sub>14</sub> N <sub>2</sub> ·HCl
28705-46-6	08610	Ethyl 7-diethylaminocoumarin-3-carboxylate	C <sub>16</sub> H <sub>19</sub> NO <sub>4</sub>
4181-05-9	50850	4-Diphenylaminobenzaldehyde	C <sub>19</sub> H <sub>15</sub> NO
4182-80-3	07190	1,4-Bis[ <i>N,N</i> -bis(4- <i>N,N</i> -di- <i>n</i> -butylaminophenyl)amino]benzene	C <sub>62</sub> H <sub>92</sub> N <sub>6</sub>
51963-82-7	42810	4-(4-Amino-2,5-diethoxyphenyl)morpholine	C <sub>14</sub> H <sub>22</sub> N <sub>2</sub> O <sub>3</sub>
531-91-9	50830	<i>N,N'</i> -Diphenylbenzidine	C <sub>24</sub> H <sub>20</sub> N <sub>2</sub>
5496-71-9	16020	<i>N,N,N',N'</i> -Tetrakis(4-dibutylaminophenyl)- <i>p</i> -phenylenediaminium dihexafluoroantimonate	C <sub>62</sub> H <sub>92</sub> N <sub>6</sub> ·2SbF <sub>6</sub>
55526-63-1	46310	2-Chloromalondianil hydrochloride	C <sub>15</sub> H <sub>13</sub> ClN <sub>2</sub> ·HCl
5981-09-9	50840	4,4',4''-Triaminotriphenylamine	C <sub>18</sub> H <sub>18</sub> N <sub>4</sub>

622-15-1	13560	<i>N,N'</i> -Diphenylformamidine	C <sub>13</sub> H <sub>12</sub> N <sub>2</sub>
62669-60-7	07770	Oxazine 720	C <sub>21</sub> H <sub>22</sub> N <sub>3</sub> O·ClO <sub>4</sub>
6283-63-2	12991	<i>N,N</i> -Diethyl- <i>p</i> -phenylenediamine sulfate	C <sub>10</sub> H <sub>16</sub> N <sub>2</sub> ·H <sub>2</sub> SO <sub>4</sub>
63856-99-5	46480	3-Chloro-2,4-dimethyleneglutacondianil hydrochloride	C <sub>19</sub> H <sub>17</sub> ClN <sub>2</sub> ·HCl
63857-00-1	46380	3-Chloro-2,4-trimethyleneglutacondianil hydrochloride	C <sub>20</sub> H <sub>19</sub> ClN <sub>2</sub> ·HCl
654-70-6	50980	4-Amino-2-trifluoromethylbenzonitrile	C <sub>8</sub> H <sub>5</sub> F <sub>3</sub> N <sub>2</sub>
6684-11-3	45910	2-Methylmalondianil hydrochloride	C <sub>16</sub> H <sub>16</sub> N <sub>2</sub> ·HCl
72235-52-0	58780	2,4-Difluorobenzylamine	C <sub>7</sub> H <sub>7</sub> F <sub>2</sub> N
7385-67-3	17440	Nile Red	C <sub>20</sub> H <sub>18</sub> N <sub>2</sub> O <sub>2</sub>
7696-70-0	15050	4-Dimethylamino-4'-nitrosodiphenylamine	C <sub>14</sub> H <sub>15</sub> N <sub>3</sub> O
777816-94-1	11360	Dye 1136 Dichlorophthalocyanine disulfonic acid cobalt complex	C <sub>32</sub> H <sub>14</sub> CoCl <sub>2</sub> N <sub>8</sub> O <sub>6</sub> S <sub>2</sub>
87-01-4	18131	7-(Dimethylamino)-4-methyl-coumarin	C <sub>12</sub> H <sub>13</sub> NO <sub>2</sub>
88358-74-1	15000	<i>N,N,N',N'</i> -Tetrakis(4-dibutylaminophenyl)- <i>p</i> -phenylenediaminium diperchlorate	C <sub>62</sub> H <sub>92</sub> N <sub>6</sub> ·2ClO <sub>4</sub>
93-05-0	01970	<i>N,N</i> -Diethyl- <i>p</i> -phenylenediamine	C <sub>10</sub> H <sub>16</sub> N <sub>2</sub>

### 3. Aminoalcohols and Aminophenol Derivatives

CAS NO.	CODE	CHEMICAL NAME	MOLECULAR FORMULA
2871-01-4	50600	4-(2-Hydroxyethyl)amino-3-nitroaniline	C <sub>8</sub> H <sub>11</sub> N <sub>3</sub> O <sub>3</sub>
1064-48-8	49810	Acid Black 1 C.I.20470	C <sub>22</sub> H <sub>16</sub> N <sub>6</sub> O <sub>9</sub> S <sub>2</sub> ·2Na
1134-36-7	13630	3-Amino-4-hydroxybiphenyl	C <sub>12</sub> H <sub>11</sub> NO
121-88-0	36410	2-Amino-5-nitrophenol	C <sub>6</sub> H <sub>6</sub> N <sub>2</sub> O <sub>3</sub>
123-30-8	15430	4-Aminophenol	C <sub>6</sub> H <sub>7</sub> NO
13325-10-5	15190	4-Amino-1-butanol	C <sub>4</sub> H <sub>11</sub> NO
142-26-7	14171	<i>N</i> -Acetyethanolamine	C <sub>4</sub> H <sub>9</sub> NO <sub>2</sub>
24905-87-1	50610	4-(2-Hydroxyethyl)amino-2-nitroaniline	C <sub>8</sub> H <sub>11</sub> N <sub>3</sub> O <sub>3</sub>
2843-27-8	48030	2-Hydroxyformanilide	C <sub>7</sub> H <sub>7</sub> NO <sub>2</sub>
28443-50-7	70780	2-Amino-5-chlorophenol	C <sub>6</sub> H <sub>6</sub> ClNO
39549-31-0	13750	2-Amino-4,6-dichloro-5-methylphenol hydrochloride	C <sub>7</sub> H <sub>7</sub> Cl <sub>2</sub> NO·HCl
4926-55-0	50580	<i>N</i> -(2-Hydroxyethyl)-2-nitroaniline	C <sub>8</sub> H <sub>10</sub> N <sub>2</sub> O <sub>3</sub>
52671-64-4	13260	3-Chloro-4-aminophenol hydrochloride	C <sub>6</sub> H <sub>6</sub> ClNO·HCl
614-80-2	36500	2-Acetamidophenol	C <sub>8</sub> H <sub>9</sub> NO <sub>2</sub>
6317-85-7	06730	4-Dimethylaminobenzoin	C <sub>16</sub> H <sub>17</sub> NO <sub>2</sub>
84041-77-0	44270	2,5-Bis[(2-hydroxyethyl)amino]-nitrobenzene	C <sub>10</sub> H <sub>15</sub> N <sub>3</sub> O <sub>4</sub>
846023-24-3	51040	2-Cyano- <i>N</i> -(2,4-dichloro-5-methoxyphenyl)acetamide	C <sub>10</sub> H <sub>8</sub> Cl <sub>2</sub> N <sub>2</sub> O <sub>2</sub>

<b>86771-76-8</b>	26140	5-Methoxy-2-nitro- <i>p</i> -toluidine	C <sub>8</sub> H <sub>10</sub> N <sub>2</sub> O <sub>3</sub>
<b>99610-72-7</b>	50510	4,6-Dinitro-2-(2-hydroxyethyl)aminophenol	C <sub>8</sub> H <sub>9</sub> N <sub>3</sub> O <sub>6</sub>
<b>619-08-9</b>	42871	2-Chloro-4-nitrophenol	C <sub>6</sub> H <sub>4</sub> ClNO <sub>3</sub>
<b>67874-68-4</b>	34880	Phenoxyacetaldehyde dimethylacetal	C <sub>10</sub> H <sub>14</sub> O <sub>3</sub>
<b>6935-44-0</b>	36780	Ethyl-alpha-cyano-4-hydroxycinnamate	C <sub>12</sub> H <sub>11</sub> NO <sub>3</sub>
<b>77-08-7</b>	12422	5,5',6,6'-Tetrahydroxy-3,3,3',3'-tetramethyl-1,1'-spirobisindane	C <sub>21</sub> H <sub>24</sub> O <sub>4</sub>
<b>89929-65-7</b>	33910	1,1'-Spiro-bis(3,3-dimethyl-5,6-dipropoxyindane)	C <sub>33</sub> H <sub>48</sub> O <sub>4</sub>
<b>91-04-3</b>	13270	2,6-Bis(hydroxymethyl)- <i>p</i> -cresol	C <sub>9</sub> H <sub>12</sub> O <sub>3</sub>

#### 4. Carboxylic Acids and Derivatives

CAS No.	CODE	CHEMICAL NAME	MOLECULAR FORMULA
<b>10472-24-9</b>	05580	Methyl 2-oxocyclopentanecarboxylate	C <sub>7</sub> H <sub>10</sub> O <sub>3</sub>
<b>1068-57-1</b>	66850	Acetohydrazide	C <sub>2</sub> H <sub>6</sub> N <sub>2</sub> O
<b>1075-49-6</b>	57370	4-Vinylbenzoic acid	C <sub>9</sub> H <sub>8</sub> O <sub>2</sub>
<b>107-91-5</b>	36830	Cyanoacetamide	C <sub>3</sub> H <sub>4</sub> N <sub>2</sub> O
<b>110-16-7</b>	71380	Maleic Acid	C <sub>4</sub> H <sub>4</sub> O <sub>4</sub>
<b>112078-08-7</b>	57490	PTCDI	C <sub>88</sub> H <sub>90</sub> N <sub>2</sub> O <sub>8</sub>
<b>113869-06-0</b>	16640	Coumarin 314T	C <sub>22</sub> H <sub>27</sub> NO <sub>4</sub>
<b>117133-81-0</b>	33850	Isobutyl alpha-cyano-3,4-methylenedioxybenzoate	C <sub>15</sub> H <sub>15</sub> NO <sub>4</sub>
<b>123174-58-3</b>	58890	Fluorescence Red	C <sub>72</sub> H <sub>58</sub> N <sub>2</sub> O <sub>8</sub>
<b>131512-74-8</b>	33900	2-Ethylhexyl alpha-cyano-5-phenyl-2,4-pentadienoate	C <sub>20</sub> H <sub>25</sub> NO <sub>2</sub>
<b>13558-31-1</b>	17570	Rhodamine 110	C <sub>20</sub> H <sub>15</sub> N <sub>2</sub> O <sub>3</sub> ·Cl
<b>14283-07-9</b>	79970	Lithium tetrafluoroborate in $\gamma$ -Butyrolactone	LiBF <sub>4</sub>
<b>143269-62-9</b>	33820	2-Ethylhexyl alpha-cyano-3,4-dimethoxycinnamate	C <sub>20</sub> H <sub>27</sub> NO <sub>4</sub>
<b>147613-95-4</b>	77690	<i>N,N</i> -Di- <i>n</i> -butyl-2-(1,2-dihydro-3-hydroxy-6-isopropyl-2-quinolyldiene)-1,3-dioxindan-5-carboxamide	C <sub>30</sub> H <sub>34</sub> N <sub>2</sub> O <sub>4</sub>
<b>14805-29-9</b>	59290	Norbornan-exo-2,3-dicarbonacid imide	C <sub>9</sub> H <sub>11</sub> NO <sub>2</sub>
<b>14818-35-0</b>	59710	6-Cyclohexyl-4-methyl-2-pyrone	C <sub>12</sub> H <sub>16</sub> O <sub>2</sub>
<b>1490-25-1</b>	50320	Methylsuccinyl chloride	C <sub>5</sub> H <sub>7</sub> ClO <sub>3</sub>
<b>1510824-40-4</b>	69460	Di-(2-butoxy-5-tert-octyl-phenyl)-1,6,7,16-tetrachloro-perylene-3,4,9,10-tetracarboxylic acid dimide	C <sub>60</sub> H <sub>62</sub> Cl <sub>4</sub> N <sub>2</sub> O <sub>6</sub>
<b>1530-89-8</b>	53210	<i>N</i> -Cyanomorpholine	C <sub>5</sub> H <sub>8</sub> N <sub>2</sub> O
<b>1571-65-9</b>	13180	3-Amino-4-hydroxybenzoic acid hydrochloride	C <sub>7</sub> H <sub>7</sub> NO <sub>3</sub> ·HCl
<b>1617-18-1</b>	70250	Ethyl 3-butenolate	C <sub>6</sub> H <sub>10</sub> O <sub>2</sub>
<b>175161-86-1</b>	05300	2-( <i>N</i> -Carboxymethyl- <i>N</i> -phenyl)amino-4,6-dimercapto-1,3,5-triazine	C <sub>11</sub> H <sub>10</sub> N <sub>4</sub> O <sub>2</sub> S <sub>2</sub>
<b>1829-28-3</b>	50990	Ethyl 2-iodobenzoate	C <sub>9</sub> H <sub>9</sub> IO <sub>2</sub>

19094-56-5	69530	2-Chloro-5-iodo-benzoic acid	C <sub>7</sub> H <sub>4</sub> ClIO <sub>2</sub>
1999-00-4	65360	Ethyl <i>p</i> -fluorobenzoylacetate	C <sub>11</sub> H <sub>11</sub> FO <sub>3</sub>
2318-25-4	13200	Ethyl 3-ethoxy-3-iminopropionate hydrochloride	C <sub>7</sub> H <sub>13</sub> NO <sub>3</sub> ·HCl
24139-57-9	33870	alpha-Cyano-5-phenyl-2,4-pentadienic acid	C <sub>12</sub> H <sub>9</sub> NO <sub>2</sub>
25152-49-2	06170	Rhodamine 19	C <sub>26</sub> H <sub>26</sub> N <sub>2</sub> O <sub>3</sub>
25252-00-0	74020	2-Bromo-5-iodobenzoic acid	C <sub>7</sub> H <sub>4</sub> BrIO <sub>2</sub>
2725-81-7	71030	6-Nitro coumarine	C <sub>9</sub> H <sub>5</sub> NO <sub>4</sub>
27425-55-4	17021	Coumarin 7	C <sub>20</sub> H <sub>19</sub> N <sub>3</sub> O <sub>2</sub>
28871-95-6	70190	endo-2,3-Norbornanedicarboximide	C <sub>9</sub> H <sub>11</sub> NO <sub>2</sub>
35824-91-0	69480	1,3-Dicyclohexylbarbituric acid	C <sub>16</sub> H <sub>24</sub> N <sub>2</sub> O <sub>3</sub>
3619-17-8	66680	Isobutyrohydrazide	C <sub>4</sub> H <sub>10</sub> N <sub>2</sub> O
3779-29-1	35600	Diethyl cyclobutane-1,1-dicarboxylate	C <sub>10</sub> H <sub>16</sub> O <sub>4</sub>
38330-80-2	74790	Methyl potassium malonate	C <sub>4</sub> H <sub>5</sub> KO <sub>4</sub>
41267-76-9	17080	Coumarin 102	C <sub>16</sub> H <sub>17</sub> NO <sub>2</sub>
42826-42-6	66580	Pivaloylhydrazide	C <sub>5</sub> H <sub>12</sub> N <sub>2</sub> O
491851-29-7	82430	Diisopropylvanilidene malonate	C <sub>17</sub> H <sub>22</sub> O <sub>6</sub>
51934-41-9	06100	Ethyl 4-iodobenzoate	C <sub>9</sub> H <sub>9</sub> IO <sub>2</sub>
52918-53-9	10020	<i>N</i> -{2-Chloro-5-[4-(2,4-di- <i>tert</i> -pentylphenoxy)butyramido]phenyl}-2-(4-carboxyphenoxy)pivaloylacetamide	C <sub>40</sub> H <sub>51</sub> ClN <sub>2</sub> O <sub>7</sub>
5351-23-5	37970	4-Hydroxybenzhydrazide	C <sub>7</sub> H <sub>8</sub> N <sub>2</sub> O <sub>2</sub>
5445-51-2	35590	Cyclobutane-1,1-dicarboxylic acid	C <sub>6</sub> H <sub>8</sub> O <sub>4</sub>
5511-18-2	55010	1-Adamantancarboxamide	C <sub>11</sub> H <sub>17</sub> NO
55804-66-5	17120	Coumarin 314	C <sub>18</sub> H <sub>19</sub> NO <sub>4</sub>
588-23-8	04540	4-Acetylamino-2',3-dimethylazobenzene	C <sub>16</sub> H <sub>17</sub> N <sub>3</sub> O
601-75-2	27700	Ethylmalonic acid	C <sub>5</sub> H <sub>8</sub> O <sub>4</sub>
611-10-9	08580	Ethyl 2-oxocyclopentanecarboxylate	C <sub>8</sub> H <sub>12</sub> O <sub>3</sub>
6148-64-7	37660	Ethyl potassium malonate	C <sub>5</sub> H <sub>8</sub> O <sub>4</sub> K
61700-58-1	65320	4-Cyanaminobenzoic acid	C <sub>8</sub> H <sub>6</sub> N <sub>2</sub> O <sub>2</sub>
623-33-6	83860	Ethyl-2-aminoacetate hydrochloride	C <sub>4</sub> H <sub>9</sub> NO <sub>2</sub> ·xHCl
62669-66-3	17590	Rhodamine 19P	C <sub>26</sub> H <sub>27</sub> N <sub>2</sub> O <sub>3</sub> ·ClO <sub>4</sub>
63524-66-3	33860	2-Ethylhexyl alpha-cyano-3,4-methylenedioxy-cinnamate	C <sub>19</sub> H <sub>21</sub> NO <sub>4</sub>
65-45-2	06350	Salicylamide	C <sub>7</sub> H <sub>7</sub> NO <sub>2</sub>
7391-70-0	54240	5-Cyclohexylbarbituric acid	C <sub>10</sub> H <sub>14</sub> N <sub>2</sub> O <sub>3</sub>
838-57-3	13010	Ethyl 4-nitrobenzoylacetate	C <sub>11</sub> H <sub>11</sub> NO <sub>5</sub>
84-72-0	64610	Ethylphthalylethylglycolate	C <sub>14</sub> H <sub>16</sub> O <sub>6</sub>

<b>86213-20-9</b>	33790	alpha-Cyano-3,4-dimethoxycinnamic acid	C <sub>12</sub> H <sub>11</sub> NO <sub>4</sub>
<b>90-33-5</b>	17041	Coumarin 4	C <sub>10</sub> H <sub>8</sub> O <sub>3</sub>
<b>91-44-1</b>	17051	Coumarin 1	C <sub>14</sub> H <sub>17</sub> NO <sub>2</sub>
<b>93966-57-5</b>	70840	2-Cyano-3-(4-methoxyphenyl)-2-propenoic acid propyl ester	C <sub>14</sub> H <sub>15</sub> NO <sub>3</sub>
<b>94-25-7</b>	71010	Butyl-4-amino-benzoate	C <sub>11</sub> H <sub>15</sub> NO <sub>2</sub>
<b>989-38-8</b>	17640	Rhodamine 6G	C <sub>28</sub> H <sub>31</sub> N <sub>2</sub> O <sub>3</sub> ·Cl

## 5. Cyanines

CAS No.	CODE	CHEMICAL NAME	MOLECULAR FORMULA
-	08390	4,5:4',5'-Dibenzo-1-ethyl-1',3,3,3',3'-pentamethylindacarbocyanine hexafluorophosphate	C <sub>34</sub> H <sub>35</sub> N <sub>2</sub> ·PF <sub>6</sub>
-	09850	4,5:4',5'-Dibenzo-1,1'-diethyl-3,3,3',3'-tetramethylindadicarbocyanine hexafluorophosphate	C <sub>37</sub> H <sub>39</sub> N <sub>2</sub> ·PF <sub>6</sub>
-	19550	5,5'-Dimethoxy-3,3',9-triethylloxacarbocyanine thiocyanate	C <sub>25</sub> H <sub>29</sub> N <sub>2</sub> O <sub>4</sub> ·SCN
-	77890	4,5:4',5'-Dibenzo-1-ethyl-1',3,3,3',3'-pentamethylindacarbocyanine tetrafluoroborate	C <sub>36</sub> H <sub>39</sub> N <sub>2</sub> ·BF <sub>4</sub>
<b>103534-62-9</b>	12720	3-(2-Hydroxyethyl)-9-methyl-3'-(3-sulfatobutyl)thiacarbocyanine betaine	C <sub>24</sub> H <sub>26</sub> N <sub>2</sub> O <sub>5</sub> S <sub>3</sub>
<b>105176-22-5</b>	12920	4,5-Diphenyl-2-[5-[3-ethoxy-4-(3-ethyl-5-methyl-2-benthiazolinylidene)-2-butenylidene]-3-ethyl-4-oxo-2-thiazolidinylidene} methyl-3-ethylthiazolium iodide	C <sub>39</sub> H <sub>40</sub> N <sub>3</sub> O <sub>2</sub> S <sub>3</sub> ·I
<b>108517-41-5</b>	19670	5',6'-Dimethyl-5-methoxy-3,3',9-triethylselenathiacarbocyanine perchlorate	C <sub>26</sub> H <sub>31</sub> N <sub>2</sub> OSse·ClO <sub>4</sub>
<b>1103652-30-7</b>	34050	2-[3-(1-Cyclohexyl-2,3-dimethyl-5-[2-(3-ethyl-6,7,8,9-tetrahydronaphtho[2,1-d]-2-thiazolylidene)ethylidene]-4-oxo-2-imidazolidinylidene)-1-propenyl]-3-ethylbenzoxazolium iodide	C <sub>37</sub> H <sub>42</sub> N <sub>4</sub> O <sub>2</sub> S·I
<b>1106667-73-5</b>	19610	3,3'-Diethyl-6-diethylamino-4',5'-diphenylbenzothiazolothiazolo-2,2'-trimethinecyanine iodide	C <sub>33</sub> H <sub>36</sub> N <sub>3</sub> S <sub>2</sub> ·I
<b>117898-57-4</b>	12710	5,5'-Dimethyl-9-ethyl-3-(2-hydroxyethyl)-3'-(3-sulfatobutyl)thiacarbocyanine betaine	C <sub>27</sub> H <sub>32</sub> N <sub>2</sub> O <sub>5</sub> S <sub>3</sub>
<b>121482-73-3</b>	03930	4,5:4',5'-Dibenzo-1,1'-dibutyl-3,3,3',3'-tetramethylindadicarbocyanine perchlorate	C <sub>41</sub> H <sub>47</sub> N <sub>2</sub> ·ClO <sub>4</sub>
<b>13085-73-9</b>	30080	3,3'-Bis(2-hydroxyethyl)-5,5'-dimethoxy-9-ethylthiacarbocyanine bromide	C <sub>25</sub> H <sub>29</sub> N <sub>2</sub> O <sub>4</sub> S <sub>2</sub> ·Br
<b>131443-20-4</b>	06830	1,1'-Dibutyl-3,3,3',3'-tetramethylindadicarbocyanine perchlorate	C <sub>33</sub> H <sub>43</sub> N <sub>2</sub> ·ClO <sub>4</sub>
<b>137147-59-2</b>	06660	4,5:4',5'-Dibenzo-1,1'-dibutyl-3,3,3',3'-tetramethylindadicarbocyanine hexafluorophosphate	C <sub>41</sub> H <sub>47</sub> N <sub>2</sub> ·PF <sub>6</sub>
<b>143269-53-8</b>	12700	4,5-Benzo-1'-ethyl-3-methylquinacarbocyanine iodide	C <sub>26</sub> H <sub>23</sub> N <sub>2</sub> S·I
<b>155795-24-7</b>	07410	10-Acetoxy-1,1'-bis(4-sulfobutyl)-4,5:4',5'-dibenzo-3,3,3',3'-tetramethylindatricarbocyanine betaine sodium salt	C <sub>45</sub> H <sub>49</sub> N <sub>2</sub> NaO <sub>8</sub> S <sub>2</sub>
<b>17636-08-7</b>	19540	3,3'-Bis(2-carboxyethyl)-5,5'-dimethyl-9-ethylthiacarbocyanine betaine	C <sub>27</sub> H <sub>28</sub> N <sub>2</sub> O <sub>4</sub> S <sub>2</sub>
<b>189189-12-6</b>	06870	4,5:4',5'-Dibenzo-1,1'-dibutyl-3,3,3',3'-tetramethylindacarbocyanine perchlorate	C <sub>39</sub> H <sub>45</sub> N <sub>2</sub> ·ClO <sub>4</sub>



<b>206439-63-6</b>	07170	1,1'-Di- <i>n</i> -butyl-3,3,3',3'-tetramethylnaphtho[1,2-d]-pyrrolo-2,2'-pentamethincyanine tetrafluoroborate	C <sub>41</sub> H <sub>47</sub> N <sub>2</sub> ·BF <sub>4</sub>
<b>207399-06-2</b>	72990	IR-768 perchlorate	C <sub>42</sub> H <sub>49</sub> ClN <sub>2</sub> O <sub>5</sub>
<b>207399-07-3</b>	11040	11-Chloro-1,1'-dipropyl-3,3,3',3'-tetramethyl-10,12-trimethyleneindatricarbocyanine iodide	C <sub>36</sub> H <sub>44</sub> ClN <sub>2</sub> ·I
<b>215370-93-7</b>	07850	4,5-Benzo-1,1'-dibutyl-3,3,3',3',5-pentamethylindacarbocyanine perchlorate	C <sub>36</sub> H <sub>45</sub> N <sub>2</sub> ·ClO <sub>4</sub>
<b>23216-67-3</b>	12880	3,3'-Bis(3-sulfopropyl)-4,5:4',5'-dibenzo-9-ethylthiacarbocyanine betaine triethylammonium salt	C <sub>33</sub> H <sub>32</sub> N <sub>2</sub> O <sub>6</sub> S <sub>4</sub> ·C <sub>6</sub> H <sub>15</sub> N
<b>2602-17-7</b>	12770	3,3'-Diethylthiacyanine ethylsulfate	C <sub>19</sub> H <sub>19</sub> N <sub>2</sub> S <sub>2</sub> ·C <sub>2</sub> H <sub>5</sub> O <sub>4</sub> S
<b>27746-90-3</b>	19640	3,3'-Bis(2-sulfatoethyl)-5,5'-diphenyl-9-ethyloxacarbocyanine betaine	C <sub>35</sub> H <sub>32</sub> N <sub>2</sub> O <sub>10</sub> S <sub>2</sub>
<b>27969-56-8</b>	12350	1,1'-Bis(4-sulfophenyl)-5,5'-dihydroxy-3,3'-dimethylpyrazolo-4,4'-pentamethineoxonole	C <sub>25</sub> H <sub>22</sub> N <sub>4</sub> O <sub>8</sub> S <sub>2</sub>
<b>28118-05-0</b>	33050	5-Chloro-9-ethyl-5'-phenyl-3-(4-sulfobutyl)-3'-(3-sulfopropyl)oxacarbocyanine betaine sodium salt	C <sub>32</sub> H <sub>33</sub> ClN <sub>2</sub> O <sub>8</sub> S <sub>2</sub> ·Na
<b>28172-08-9</b>	00790	5,5'-Bis(3-cyano-1-ethyl-4-methyl-6-oxo-2-pyridone)trimethine oxonole	C <sub>21</sub> H <sub>20</sub> N <sub>4</sub> O <sub>4</sub>
<b>28784-39-6</b>	12870	4,5-Benzo-3',9-diethyl-5'-methyl-3-(3-sulfopropyl)thiacarbocyanine betaine	C <sub>29</sub> H <sub>30</sub> N <sub>2</sub> O <sub>3</sub> S <sub>3</sub>
<b>32634-36-9</b>	12850	5,5'-Dicyano-3-(4-sulfobutyl)-1,1',3'-triethylimidacarbocyanine betaine	C <sub>29</sub> H <sub>32</sub> N <sub>6</sub> O <sub>3</sub> S
<b>326801-92-7</b>	08290	4,5:4',5'-Dibenzo-1,1'-diisopentyl-3,3,3',3'-tetramethylindadicarbocyanine hexafluorophosphate	C <sub>43</sub> H <sub>51</sub> N <sub>2</sub> ·PF <sub>6</sub>
<b>33628-03-4</b>	12910	3,3'-Bis(3-sulfopropyl)-5,5'-diphenyl-9-ethyloxacarbocyanine betaine sodium salt	C <sub>37</sub> H <sub>36</sub> N <sub>2</sub> O <sub>8</sub> S <sub>2</sub> ·Na
<b>35501-76-9</b>	12840	3,3'-Bis(4-sulfobutyl)-5,5'-diphenyl-9-ethyloxacarbocyanine betaine sodium salt	C <sub>39</sub> H <sub>40</sub> N <sub>2</sub> O <sub>8</sub> S <sub>2</sub> ·Na
<b>35795-45-0</b>	19520	3,3'-Diethyl-5-phenyl-5',6',9-trimethyloxathiacarbocyanine perchlorate	C <sub>30</sub> H <sub>31</sub> N <sub>2</sub> OS·ClO <sub>4</sub>
<b>36393-83-6</b>	30090	3,3'-Bis(2-hydroxyethyl)-5,5',9-trimethylthiacarbocyanine bromide	C <sub>24</sub> H <sub>27</sub> N <sub>2</sub> O <sub>2</sub> S <sub>2</sub> ·Br
<b>365514-36-9</b>	11710	4,5:6',7'-Dibenzo-1,1',3,3,3',3'-hexamethylindacarbocyanine hexafluorophosphate	C <sub>33</sub> H <sub>33</sub> N <sub>2</sub> ·PF <sub>6</sub>
<b>41503-61-1</b>	12680	5,5'-Diphenyl-3,3',9-triethyloxacarbocyanine ethylsulfate	C <sub>35</sub> H <sub>33</sub> N <sub>2</sub> O <sub>2</sub> ·C <sub>2</sub> H <sub>5</sub> O <sub>4</sub> S
<b>462093-29-4</b>	07830	1,1'-Dibutyl-3,3,3',3'-tetramethylindadicarbocyanine hexafluorophosphate	C <sub>33</sub> H <sub>43</sub> N <sub>2</sub> ·PF <sub>6</sub>
<b>494762-23-1</b>	70820	1-Butyl-2-[2-[3-[2-(1-butyl-1,3-dihydro-3,3-dimethyl-2 <i>H</i> -indol-2-ylidene) ethylidene]-2-(1 <i>H</i> -1,2,4-triazol-1-yl)-1-cyclohexen-1-yl] ethenyl]-3,3-dimethyl-3 <i>H</i> -indolium tetrafluoroborate	C <sub>40</sub> H <sub>50</sub> N <sub>5</sub> ·BF <sub>4</sub>
<b>51257-37-5</b>	12780	4,5-Diphenyl-3-ethyl-2-{3-ethyl-5-[2-(1-ethyl-4-quinolinylidene) ethylidene]-4-oxo-2-thiazolidinylidene}methylthiazolium bromide	C <sub>36</sub> H <sub>34</sub> N <sub>3</sub> OS <sub>2</sub> ·Br
<b>51858-17-4</b>	33350	1,1'-Bis(4-sulfophenyl)-3,3'-dicarboxy-5,5'-dihydroxypyrazolo-4,4'-pentamethineoxonole dipotassium salt	C <sub>25</sub> H <sub>18</sub> N <sub>4</sub> O <sub>12</sub> S <sub>2</sub> ·2K
<b>52525-52-7</b>	12760	5,5'-Dimethyl-9-ethyl-3-(2-hydroxyethyl)-3'-(3-sulfopropyl)thiacarbocyanine betaine	C <sub>26</sub> H <sub>30</sub> N <sub>2</sub> O <sub>4</sub> S <sub>3</sub>
<b>52525-55-0</b>	12860	3-Ethyl-9-methyl-3'-(3-sulfatobutyl)thiacarbocyanine betaine	C <sub>24</sub> H <sub>26</sub> N <sub>2</sub> O <sub>4</sub> S <sub>3</sub>
<b>52749-17-4</b>	12940	3-Carboxymethyl-3',9-diethyl-5,5'-dimethylthiacarbocyanine betaine	C <sub>25</sub> H <sub>26</sub> N <sub>2</sub> O <sub>2</sub> S <sub>2</sub>

<b>54389-98-9</b>	03910	4,5,4',5'-Dibenzo-1,1',3,3,3',3'-hexamethylindadicarbocyanine perchlorate	$C_{35}H_{35}N_2 \cdot ClO_4$
<b>59862-10-1</b>	07420	1,1'-Bis(4-sulfobutyl)-3,3,3',3'-tetramethylindadicarbocyanine betaine sodium salt	$C_{33}H_{41}N_2O_6S_2Na$
<b>599177-24-9</b>	08370	4,5:4',5'-Dibenzo-1,1',3,3,3',3'-hexamethylindadicarbocyanine hexafluorophosphate	$C_{33}H_{33}N_2 \cdot PF_6$
<b>60760-42-1</b>	12900	4,5-Benzo-3,3'-bis(3-sulfopropyl)thiacyanine betaine triethylammonium salt	$C_{25}H_{24}N_2O_6S_4 \cdot C_6H_{15}N$
<b>61105-57-5</b>	34060	3,3'-Diethyl-9-methyloxacarbocyanine perchlorate	$C_{22}H_{23}N_2O_2 \cdot ClO_4$
<b>63148-97-0</b>	12670	3,3'-Bis(3-sulfopropyl)-5,5'-dimethoxythiacyanine betaine triethylammonium salt	$C_{23}H_{26}N_2O_8S_4 \cdot C_6H_{15}N$
<b>63811-40-5</b>	13460	2,2'-Dimercapto-4,4',6,6'-tetrahydroxypyrimidino-5,5'-pentamethineoxonole	$C_{13}H_{10}N_4O_4S_2$
<b>663161-10-2</b>	11020	4,5:4',5'-Dibenzo-1,1'-dibutyl-3,3,3',3'-tetramethylindatricarbocyanine hexafluorophosphate	$C_{43}H_{49}N_2 \cdot PF_6$
<b>67326-80-1</b>	12890	3,3'-Bis(3-sulfopropyl)-5-chloro-9-ethyl-5'-phenyloxacarbocyanine betaine sodium salt	$C_{31}H_{31}ClN_2O_8S_2 \cdot Na$
<b>70024-44-1</b>	05290	1,1'-Bis(4-sulfophenyl)-3,3'-dicarboxy-5,5'-dihydroxypyrazolo-4,4'-trimethine oxonole tetrasodium salt	$C_{23}H_{16}N_4O_{12}S_2 \cdot 4Na$
<b>726185-88-2</b>	11680	4''-Bromo-4,5:4',5'-dibenzo-1,1',3,3,3',3'-hexamethylindadicarbocyanine perchlorate	$C_{33}H_{32}BrN_2 \cdot ClO_4$
<b>76433-27-7</b>	03940	Styryl 6	$C_{23}H_{27}N_2 \cdot ClO_4$
<b>77837-26-4</b>	12690	5,9-Dimethyl-3-ethyl-5'-phenyl-3'-(4-sulfobutyl)-oxathiacycarbocyanine betaine	$C_{31}H_{32}N_2O_4S_2$
<b>905-96-4</b>	04720	3,3'-Diethyloxacarbocyanine iodide	$C_{21}H_{21}N_2O_2 \cdot I$
<b>92050-35-6</b>	12320	1,1'-Bis(4-sulfophenyl)-5,5'-dihydroxy-3,3',a-trimethylpyrazolo-4,4'-trimethine oxonole tripotassium salt	$C_{24}H_{19}K_3N_4O_8S_2$
<b>977-96-8</b>	12740	1,1'-Diethyl-2,2'-cyanine iodide	$C_{23}H_{23}N \cdot I$

## 6. Furanes, Pyrroles

CAS No.	CODE	CHEMICAL NAME	MOLECULAR FORMULA
<b>10599-69-6</b>	63150	2-Methyl-5-propionylfuran	$C_8H_{10}O_2$
<b>10599-70-9</b>	09180	3-Acetyl-2,5-dimethylfuran	$C_8H_{10}O_2$
<b>1074-82-4</b>	00321	Potassium Phthalimide	$C_8H_5NO_2 \cdot K$
<b>1515-72-6</b>	34160	N-Butylphthalimide	$C_{12}H_{13}NO_2$
<b>3468-11-9</b>	37480	1,3-Diiminoisoindoline	$C_8H_7N_3$
<b>625-86-5</b>	26740	2,5-Dimethylfuran	$C_6H_8O$
<b>79814-40-7</b>	37380	R-(+)-2-Acetoxysuccinic anhydride	$C_6H_6O_5$
<b>94856-25-4</b>	09140	Aberchrome 670	$C_{22}H_{24}O_4$

**7. Halogenated Aliphates and Aromates**

CAS No.	CODE	CHEMICAL NAME	MOLECULAR FORMULA
16588-06-0	45640	4-Chloro-3-nitrobenzamide	C <sub>7</sub> H <sub>5</sub> ClN <sub>2</sub> O <sub>3</sub>
19053-14-6	34400	4,4'-Diiodo- <i>p</i> -terphenyl	C <sub>18</sub> H <sub>12</sub> I <sub>2</sub>
459-57-4	23810	4-Fluorbenzaldehyd	C <sub>7</sub> H <sub>5</sub> FO
529-28-2	51000	2-Iodoanisele	C <sub>7</sub> H <sub>7</sub> IO
62265-99-0	42850	2,6-Dibromo-3-methyl-4-nitroanisele	C <sub>8</sub> H <sub>7</sub> Br <sub>2</sub> NO <sub>3</sub>
624-31-7	04940	4-Iodotoluene	C <sub>7</sub> H <sub>7</sub> I
696-62-8	60130	4-Iodoanisele	C <sub>7</sub> H <sub>7</sub> IO
7149-80-6	14260	5-Chloro-2-nitro- <i>p</i> -toluidine	C <sub>7</sub> H <sub>7</sub> ClN <sub>2</sub> O <sub>2</sub>
946525-30-0	74700	2-Bromo-5-iodo-benzyl alcohol	C <sub>7</sub> H <sub>6</sub> BrIO
98446-49-2	65550	2,4-Dichloro-5-methoxyaniline	C <sub>7</sub> H <sub>7</sub> Cl <sub>2</sub> NO

**8. Imidazoles, Pyrazoles**

CAS No.	CODE	CHEMICAL NAME	MOLECULAR FORMULA
-	34010	3-(2-Acetoxyethyl)-5,6-dichloro-2-[3-(3-ethyl-2-thiazolidinylidene)-1-propenyl]-1-methylbenzimidazolium iodide	C <sub>20</sub> H <sub>24</sub> Cl <sub>2</sub> N <sub>3</sub> O <sub>2</sub> S·I
10234-77-2	37270	5-Methyl-3-pyrazolidinone hydrochloride	C <sub>4</sub> H <sub>8</sub> N <sub>2</sub> O·HCl
1122-28-7	08520	Imidazole-4,5-dicarbonitrile	C <sub>5</sub> H <sub>2</sub> N <sub>4</sub>
115345-38-5	10550	1-(4-Phenoxy-3-sulfophenyl)-3-heptadecyl-4-isopropyl-2-pyrazolin-5-one	C <sub>35</sub> H <sub>52</sub> N <sub>2</sub> O <sub>5</sub> S
143193-48-0	12290	1-(2-Chloro-5-sulfophenyl)-3-methyl-4-(4-dimethylaminobenzylidene)-2-pyrazolin-5-one triethylammonium salt	C <sub>25</sub> H <sub>33</sub> ClN <sub>4</sub> O <sub>4</sub> S
207511-11-3	12970	Sodium 2-mercaptobenzimidazole-5-sulfonate dihydrate	C <sub>7</sub> H <sub>6</sub> N <sub>2</sub> O <sub>3</sub> S <sub>2</sub> ·Na·2H <sub>2</sub> O
30563-77-0	37240	1-Ethyl-2-methyl-5-trifluoromethylbenzimidazole	C <sub>11</sub> H <sub>11</sub> F <sub>3</sub> N <sub>2</sub>
30707-77-8	13820	1-(4-Aminophenyl)-3-pyrrolidino-2-pyrazolin-5-one	C <sub>13</sub> H <sub>16</sub> N <sub>4</sub> O
32634-35-8	03220	5-Cyano-1-ethyl-2-methyl-3-(4-sulfobutyl)benzimidazolium betaine	C <sub>15</sub> H <sub>19</sub> N <sub>3</sub> O <sub>3</sub> S
40953-34-2	09580	2-Aminoimidazole-4,5-dicarbonitrile	C <sub>5</sub> H <sub>3</sub> N <sub>5</sub>
4414-88-4	62700	2-Benzimidazoleacetonitrile	C <sub>9</sub> H <sub>7</sub> N <sub>3</sub>
55697-65-9	10110	1-(2,4,6-Trichlorophenyl)-3-[2-chloro-5-(1-octadecenyl-1-succinimido)anilino]-2-pyrazolin-5-one	C <sub>37</sub> H <sub>46</sub> Cl <sub>4</sub> N <sub>4</sub> O <sub>3</sub>
570-22-9	14980	Imidazole-4,5-dicarboxylic acid	C <sub>5</sub> H <sub>4</sub> N <sub>2</sub> O <sub>4</sub>
583-39-1	21690	2-Mercaptobenzimidazole	C <sub>7</sub> H <sub>6</sub> N <sub>2</sub> S
62306-08-5	46420	5-Cyano-1-ethyl-2-methylbenzimidazole	C <sub>11</sub> H <sub>11</sub> N <sub>3</sub>
68296-59-3	74360	9(or 10)-Methoxyphenaleno[2,3-a]benzimidazol-7-one	C <sub>19</sub> H <sub>12</sub> N <sub>2</sub> O <sub>2</sub>
7152-24-1	48100	2-(Methylthio)benzimidazol	C <sub>8</sub> H <sub>8</sub> N <sub>2</sub> S
72-40-2	60750	4-Aminoimidazole-5-carboxamide hydrochloride	C <sub>4</sub> H <sub>6</sub> N <sub>4</sub> O·HCl
91101-24-5	33340	1-(2-Chloro-5-sulfophenyl)-3-methyl-4-(4-sulfophenyl)azo-2-pyrazolin-5-one disodium salt	C <sub>16</sub> H <sub>13</sub> ClN <sub>4</sub> O <sub>7</sub> S <sub>2</sub> ·2Na

**9. Indoles, Benzindoles**

CAS No.	CODE	CHEMICAL NAME	MOLECULAR FORMULA
-	07050	1-Butyl-2,3,3-trimethylbenz[e]indolium tetrafluoroborate	C <sub>19</sub> H <sub>24</sub> N·BF <sub>4</sub>
-	07180	1-Propyl-2,3,3-trimethylindolium tetrafluoroborate	C <sub>14</sub> H <sub>20</sub> N·BF <sub>4</sub>
-	35880	1-Methyl-TMBI[g]hexafluorophosphat	C <sub>16</sub> H <sub>18</sub> N·PF <sub>6</sub>
<b>137107-72-3</b>	74140	3-Butyl-1,1,2-trimethyl-1 <i>H</i> -benz[e]indoliumiodide	C <sub>19</sub> H <sub>24</sub> IN
<b>141914-99-0</b>	07040	1,2,3,3-Tetramethylbenz[e]indolium tosylate	C <sub>16</sub> H <sub>18</sub> N·C <sub>7</sub> H <sub>7</sub> O <sub>3</sub> S
<b>145038-06-8</b>	06530	1-Butyl-2,3,3-trimethylbenz[e]indolium perchlorate	C <sub>19</sub> H <sub>24</sub> N·ClO <sub>4</sub>
<b>145038-07-9</b>	07090	1-Butyl-2,3,3-trimethylbenz[e]indolium tosylate	C <sub>19</sub> H <sub>24</sub> N·C <sub>7</sub> H <sub>7</sub> O <sub>3</sub> S
<b>1640-39-7</b>	45920	2,3,3-Trimethylindolenine	C <sub>11</sub> H <sub>13</sub> N
<b>20205-29-2</b>	07230	1-Propyl-2,3,3-trimethylindolium iodide	C <sub>14</sub> H <sub>20</sub> N·I
<b>25981-82-2</b>	46490	2,3,3,5-Tetramethylindolenine	C <sub>12</sub> H <sub>15</sub> N
<b>3484-22-8</b>	46860	5-Nitro-2,3,3-trimethylindolenine	C <sub>11</sub> H <sub>12</sub> N <sub>2</sub> O <sub>2</sub>
<b>41532-84-7</b>	13701	2,3,3-Trimethyl-3 <i>H</i> -benz[e]indol	C <sub>15</sub> H <sub>15</sub> N
<b>4792-67-0</b>	61460	5-Chloroindole-2-carboxylic acid ethylester	C <sub>11</sub> H <sub>10</sub> ClNO <sub>2</sub>
<b>5418-63-3</b>	74170	1,2,3,3-Tetramethyl-3 <i>H</i> -indoliumiodid	C <sub>12</sub> H <sub>16</sub> IN
<b>545387-09-5</b>	06720	1-Butyl-2,3,3-trimethyl-3 <i>H</i> -benz[e]indolium hexafluorophosphate	C <sub>19</sub> H <sub>24</sub> N·PF <sub>6</sub>
<b>63149-24-6</b>	02990	1-(4-Sulfobutyl)-2,3,3-trimethylbenz[e]indoliumbetaine	C <sub>19</sub> H <sub>23</sub> NO <sub>3</sub> S
<b>74470-85-2</b>	35900	2,3,3-Trimethyl-3 <i>H</i> -benz[g]indole	C <sub>15</sub> H <sub>15</sub> N
<b>84-83-3</b>	30130	2-Formylmethylene-1,3,3-trimethylindoline	C <sub>13</sub> H <sub>15</sub> NO
<b>878156-87-7</b>	61430	<i>N,N</i> -Dimethyl-5-chloroindole-2-carboxamide	C <sub>11</sub> H <sub>11</sub> ClN <sub>2</sub> O
<b>879713-65-2</b>	46850	6-Bromo-2,3,3-trimethylbenzindolenine	C <sub>15</sub> H <sub>14</sub> BrN

**10. Oxazoles**

CAS No.	CODE	CHEMICAL NAME	MOLECULAR FORMULA
<b>101852-89-5</b>	03060	2-(2-Anilino vinyl)-3-(4-sulfobutyl)benzoxazolium betaine	C <sub>19</sub> H <sub>20</sub> N <sub>2</sub> O <sub>4</sub> S
<b>10431-98-8</b>	37190	2-Ethyl-2-oxazoline	C <sub>5</sub> H <sub>9</sub> NO
<b>1120-64-5</b>	25370	2-Methyl-2-oxazoline	C <sub>4</sub> H <sub>7</sub> NO
<b>112339-60-3</b>	03050	2-Methyl-3-(4-sulfobutyl)benzoxazolium betaine	C <sub>12</sub> H <sub>15</sub> NO <sub>4</sub> S <sub>2</sub>
<b>13999-39-8</b>	54420	3-Amino-4,5-dimethylisoxazole	C <sub>5</sub> H <sub>8</sub> N <sub>2</sub> O
<b>143269-64-1</b>	33720	2-Ethylhexyl alpha-cyano-4-(3-methyloxazolin-2-ylidene)crotonate	C <sub>17</sub> H <sub>26</sub> N <sub>2</sub> O <sub>3</sub>
<b>143269-69-6</b>	12790	5-{2-[3-(2-Carboxyethyl)-2-benzoxazolylidene]ethylidene}-3-ethyl-1-methyl-2-thiohydantoine potassium salt	C <sub>18</sub> H <sub>19</sub> N <sub>3</sub> O <sub>4</sub> S <sub>2</sub> K
<b>17371-99-2</b>	60600	2-Mercapto-5-phenylbenzoxazole	C <sub>13</sub> H <sub>9</sub> NOS
<b>19219-98-8</b>	43770	2,5,6-Trimethylbenzoxazole	C <sub>10</sub> H <sub>11</sub> NO

<b>2382-96-9</b>	13690	2-Mercaptobenzoxazole	C <sub>7</sub> H <sub>5</sub> NOS
<b>26654-39-7</b>	73480	4,4-Dimethyl-2-oxazolidone	C <sub>5</sub> H <sub>9</sub> NO <sub>2</sub>
<b>288-42-6</b>	09440	Oxazole	C <sub>3</sub> H <sub>3</sub> NO
<b>300-87-8</b>	15370	3,5-Dimethylisoxazole	C <sub>5</sub> H <sub>7</sub> NO
<b>35795-44-9</b>	12930	3-Ethyl-5-[2-(3-methyl-2-thiazolidinylidene)ethylidene]-2-thioxo-4-oxazolidone	C <sub>11</sub> H <sub>14</sub> N <sub>2</sub> O <sub>2</sub> S <sub>2</sub>
<b>4570-41-6</b>	37110	2-Aminobenzoxazole	C <sub>7</sub> H <sub>6</sub> N <sub>2</sub> O
<b>615-18-9</b>	44030	2-Chlorobenzoxazole	C <sub>7</sub> H <sub>4</sub> ClNO
<b>61931-68-8</b>	13600	2-Methyl-5-phenylbenzoxazole	C <sub>14</sub> H <sub>11</sub> NO
<b>6670-13-9</b>	12980	4,5-Diphenyl-2-mercaptooxazole	C <sub>15</sub> H <sub>11</sub> NOS
<b>68123-42-2</b>	02250	3-Carboxyethyl-2-methylbenzoxazolium bromide	C <sub>11</sub> H <sub>12</sub> NO <sub>3</sub> ·Br
<b>77418-33-8</b>	12730	3-Butyl-1-ethyl-5-[3-(4-sulfobutyl)-2-benzoxazolylidene]ethylidene-2-thiohydantoine potassium salt	C <sub>22</sub> H <sub>29</sub> N <sub>3</sub> O <sub>5</sub> S <sub>2</sub> ·K

### 11. Phosphonium Compounds

CAS No.	CODE	CHEMICAL NAME	MOLECULAR FORMULA
<b>1031-15-8</b>	07910	Methyltriphenylphosphonium chloride	C <sub>19</sub> H <sub>18</sub> P·Cl
<b>1034-49-7</b>	34180	Bromomethyltriphenylphosphonium bromide	C <sub>19</sub> H <sub>17</sub> BrP·Br
<b>1100-88-5</b>	07290	Benzyltriphenylphosphonium chloride	C <sub>25</sub> H <sub>22</sub> P·Cl
<b>13371-17-0</b>	07280	Butyltriphenylphosphonium chloride	C <sub>22</sub> H <sub>24</sub> P·Cl
<b>1779-49-3</b>	06490	Methyltriphenylphosphonium bromide	C <sub>19</sub> H <sub>18</sub> P·Br
<b>1779-51-7</b>	46720	Butyltriphenylphosphonium bromide	C <sub>22</sub> H <sub>24</sub> P·Br
<b>25371-54-4</b>	52890	1-Octadecylphosphonsäuredimethylester	C <sub>20</sub> H <sub>43</sub> O <sub>3</sub> P
<b>2751-90-8</b>	07310	Tetraphenylphosphonium bromide	C <sub>24</sub> H <sub>20</sub> P·Br
<b>4736-60-1</b>	07500	Ethyltriphenylphosphonium iodide	C <sub>20</sub> H <sub>20</sub> P·I
<b>5717-37-3</b>	62960	1-Ethoxycarbonylthylienetriphenyl-phosphorane	C <sub>23</sub> H <sub>23</sub> O <sub>2</sub> P
<b>603-35-0</b>	24477	Triphenylphosphin	C <sub>18</sub> H <sub>15</sub> P
<b>6163-58-2</b>	73590	Tri- <i>o</i> -tolyl phosphine	C <sub>21</sub> H <sub>21</sub> P
<b>896-33-3</b>	65960	Ethyltriphenylphosphonium chloride	C <sub>20</sub> H <sub>20</sub> P·Cl

### 12. Piperidines, Pyridines, Pyrimidines

CAS No.	CODE	CHEMICAL NAME	MOLECULAR FORMULA
<b>1146182-96-8</b>	56010	2,2'-Bipyridine, 4,4'-bis[5-(hexylthio)-2-thienyl]-	C <sub>30</sub> H <sub>36</sub> N <sub>2</sub> S <sub>4</sub>
<b>1177301-99-3</b>	06550	8-Hydroxyjulolidine hydrochloride	C <sub>12</sub> H <sub>15</sub> NO·HCl
<b>125051-32-3</b>	72670	Bis(cyclopenta-1,3-diene)bis(1-(2,4-difluorophenyl)-3H-pyrrol-3-yl) titanium	C <sub>30</sub> H <sub>24</sub> F <sub>4</sub> N <sub>2</sub> Ti
<b>136997-71-2</b>	12070	1-Dimethylcarbamoyl-4-(2-sulfoethyl)pyridinium betaine	C <sub>10</sub> H <sub>14</sub> N <sub>2</sub> O <sub>4</sub> S

18136-00-0	05310	4,4'-Trimethylene-bis(piperidinopropionitrile)	C <sub>19</sub> H <sub>32</sub> N <sub>4</sub>
20815-52-5	68850	4-Hydrazinopyridine hydrochloride	C <sub>5</sub> H <sub>7</sub> N <sub>3</sub> ·HCl
21876-43-7	68750	Pyridinium butylsulfonate	C <sub>9</sub> H <sub>13</sub> NO <sub>3</sub> S
2503-56-2	12210	7-Hydroxy-5-methyl-1,3,4-triazaindolizine	C <sub>6</sub> H <sub>6</sub> N <sub>4</sub> O
30450-62-5	35970	7-Nitro-1,2,3,4-tetrahydroquinoline	C <sub>9</sub> H <sub>10</sub> N <sub>2</sub> O <sub>2</sub>
32449-41-5	32710	6-Brom-5-methyl-1,2,4-triazolo [1,5-a] pyrimidin-7-ol	C <sub>6</sub> H <sub>5</sub> BrN <sub>4</sub> O
33682-78-9	46100	1-Ethyl-6-methyl-2(1H)-quinolinethione	C <sub>12</sub> H <sub>13</sub> NS
3731-16-6	06270	Ethyl 2-piperidone-3-carboxylate	C <sub>8</sub> H <sub>13</sub> NO <sub>3</sub>
40775-78-8	32740	7-Hydroxy-5-methyl-2-methylthio-1,3,4-triazaindolizine	C <sub>7</sub> H <sub>8</sub> N <sub>4</sub> OS
4185-69-7	45890	1-(2,4-Dinitrophenyl)pyridinium chloride	C <sub>11</sub> H <sub>8</sub> N <sub>3</sub> O <sub>4</sub> ·Cl
4930-98-7	64510	2-Hydrazinopyridine	C <sub>5</sub> H <sub>7</sub> N <sub>3</sub>
49663-94-7	07520	1-Benzyl-1,8-diazabicyclo[5.4.0]undec-7-enium chloride	C <sub>16</sub> H <sub>23</sub> N <sub>2</sub> ·Cl
53761-50-5	45990	1-Ethyl-2-quinolone	C <sub>11</sub> H <sub>11</sub> NO
578-95-0	03740	Acridone	C <sub>13</sub> H <sub>9</sub> NO
63149-33-7	03770	8-Hydroxyjulolidine-9-aldehyde	C <sub>13</sub> H <sub>15</sub> NO <sub>2</sub>
6813-38-3	03680	2,2'-Dipyridyl-4,4'-dicarboxylic acid	C <sub>12</sub> H <sub>8</sub> N <sub>2</sub> O <sub>4</sub>
89846-21-9	17530	Pyridine 2	C <sub>19</sub> H <sub>23</sub> N <sub>2</sub> ·ClO <sub>4</sub>

### 13. Ruthenium Complexes

CAS No.	CODE	CHEMICAL NAME	MOLECULAR FORMULA
141460-19-7	11060	Dye N3	C <sub>26</sub> H <sub>16</sub> N <sub>4</sub> O <sub>8</sub> RuS <sub>2</sub>
207347-46-4	11070	Dye N719	C <sub>58</sub> H <sub>86</sub> N <sub>8</sub> O <sub>8</sub> RuS <sub>2</sub>
52462-29-0	34430	Dichloro( <i>p</i> -cymene)ruthenium(II) dimer	C <sub>20</sub> H <sub>28</sub> Cl <sub>4</sub> Ru <sub>2</sub>
847665-45-6	59780	K19 Dye	C <sub>52</sub> H <sub>50</sub> N <sub>6</sub> O <sub>6</sub> RuS <sub>2</sub> ·H·Na
871466-65-8	11092	Dye Z907	C <sub>42</sub> H <sub>50</sub> N <sub>6</sub> O <sub>4</sub> RuS <sub>2</sub> ·H·Na

### 14. Selenazoles

CAS No.	CODE	CHEMICAL NAME	MOLECULAR FORMULA
2946-17-0	13490	5-Methoxy-2-methylbenzoselenazole	C <sub>9</sub> H <sub>9</sub> NOSe
2946-20-5	30370	2,5,6-Trimethylbenzoselenazole	C <sub>10</sub> H <sub>11</sub> NSe
50378-83-1	19220	1,3'-Diethyl-5',6-dimethoxy-2,2'-quinaselenacyanine iodide	C <sub>23</sub> H <sub>25</sub> N <sub>2</sub> O <sub>2</sub> Se·I
70867-60-6	45530	2,5-Dimethyl-6-methoxybenzoselenazole	C <sub>10</sub> H <sub>11</sub> NOSe

**15. Sulfonic and Thiolic Compounds**

CAS No.	CODE	CHEMICAL NAME	MOLECULAR FORMULA
10101-88-9	27960	Sodium thiophosphate	Na <sub>3</sub> PO <sub>3</sub> S
101708-53-6	12510	8-Acetamido-2-(2-hydroxy-5-sulfophenyl)azo-1-naphthol-3,6-disulfonic acid	C <sub>18</sub> H <sub>15</sub> N <sub>3</sub> O <sub>12</sub> S <sub>3</sub>
113995-55-4	33700	6-Sulfo-TMBI	C <sub>15</sub> H <sub>15</sub> NO <sub>3</sub> S
133986-51-3	72240	2,2'-(Hydroxyimino)-bis-(ethanesulfonicacid) disodium salt	C <sub>4</sub> H <sub>9</sub> NO <sub>7</sub> S <sub>2</sub> ·2Na
1513-44-6	72020	2-Amino-4-trifluormethyl-benzolsulfonsäure	C <sub>7</sub> H <sub>6</sub> F <sub>3</sub> NO <sub>3</sub> S
1576-35-8	66630	Tosylhydrazide	C <sub>7</sub> H <sub>10</sub> N <sub>2</sub> O <sub>2</sub> S
1633-83-6	13671	1,4-Butanesultone	C <sub>4</sub> H <sub>8</sub> O <sub>3</sub> S
19381-50-1	12500	Naphtholgreen B	C <sub>30</sub> H <sub>15</sub> FeN <sub>3</sub> O <sub>15</sub> S <sub>3</sub> ·3Na
35350-31-3	13640	4,4'-Dithio-bis(nitrotoluene) techn.	C <sub>14</sub> H <sub>12</sub> N <sub>2</sub> O <sub>4</sub> S <sub>2</sub>
36635-61-7	36730	Tosylmethylisocyanide	C <sub>6</sub> H <sub>7</sub> NOS <sub>2</sub>
4424-03-7	26920	3,6-Dihydroxy-9-(2-sulfophenyl)xanthylium betaine	C <sub>19</sub> H <sub>12</sub> O <sub>6</sub> S
51755-83-0	34361	3-Mercapto-1-hexanol	C <sub>6</sub> H <sub>14</sub> OS
54646-36-5	53870	Methoxypropyl-4-methylbenzolsulfonate	C <sub>11</sub> H <sub>16</sub> O <sub>4</sub> S
599-91-7	02110	<i>n</i> -Propyltosylat	C <sub>10</sub> H <sub>14</sub> O <sub>3</sub> S
6155-57-3	74540	Sodium Saccharin, 15% Moisture	C <sub>7</sub> H <sub>4</sub> NO <sub>3</sub> Na·2H <sub>2</sub> O
6214-18-2	75320	Isopropyl Benzenesulfonate	C <sub>9</sub> H <sub>12</sub> O <sub>3</sub> S
6461-30-9	08600	6-Methyluracil-5-sulfochloride	C <sub>5</sub> H <sub>5</sub> ClN <sub>2</sub> O <sub>4</sub> S
672-78-6	01810	Methyl- <i>p</i> -toluolsulfinate	C <sub>8</sub> H <sub>10</sub> O <sub>2</sub> S
778-28-9	45510	<i>n</i> -Butyltosylate	C <sub>11</sub> H <sub>16</sub> O <sub>3</sub> S
80-48-8	04170	Methyltosylate	C <sub>8</sub> H <sub>10</sub> O <sub>3</sub> S
824-79-3	12061	4-Toluenesulfinic Acid, Sodium Tetrahydrate	C <sub>7</sub> H <sub>7</sub> O <sub>2</sub> S·4H <sub>2</sub> O
824-80-6	51820	Sodium <i>p</i> -fluorobenzenesulfinate	C <sub>6</sub> H <sub>5</sub> FO <sub>2</sub> S <sub>2</sub> Na
82911-32-8	01330	2-Mercapto-5-(4-sulfobutyl)thio-1,3,4-thiadiazole sodium salt	C <sub>6</sub> H <sub>9</sub> N <sub>2</sub> O <sub>3</sub> S <sub>4</sub> Na
873-55-2	00540	Sodium benzenesulfinate	C <sub>6</sub> H <sub>5</sub> O <sub>2</sub> S <sub>2</sub> Na

**16. Tetrazoles**

CAS No.	CODE	CHEMICAL NAME	MOLECULAR FORMULA
13980-76-2	33530	1-(4-Methoxyphenyl)-5-mercaptotetrazole	C <sub>8</sub> H <sub>8</sub> N <sub>4</sub> OS
14070-48-5	00610	1-(3-Acetamidophenyl)-5-mercaptotetrazole	C <sub>9</sub> H <sub>9</sub> N <sub>5</sub> OS
18039-42-4	05890	5-Phenyl-1 <i>H</i> -tetrazole	C <sub>7</sub> H <sub>6</sub> N <sub>4</sub>
23249-96-9	00410	1-(3-Aminophenyl)-5-mercaptotetrazole	C <sub>7</sub> H <sub>7</sub> N <sub>5</sub> S
477788-45-7	05620	1-(3-Aminophenyl)-5-mercaptotetrazole triethylammonium salt	C <sub>7</sub> H <sub>7</sub> N <sub>5</sub> S·C <sub>6</sub> H <sub>15</sub> N

<b>5084-13-9</b>	10090	<i>N</i> -(2-Tetradecyloxyphenyl)-4-(1-phenyl-5-tetrazolyl)thio-1-hydroxy-2-naphthamide	C <sub>38</sub> H <sub>45</sub> N <sub>5</sub> O <sub>3</sub> S
<b>5117-07-7</b>	12430	5,5'-Dithio-bis(1-phenyltetrazole)	C <sub>14</sub> H <sub>10</sub> N <sub>8</sub> S <sub>2</sub>
<b>52431-78-4</b>	12090	1-(4-Hydroxyphenyl)-5-mercaptotetrazole	C <sub>7</sub> H <sub>6</sub> N <sub>4</sub> OS
<b>57058-01-2</b>	75660	1-(4-Bromophenyl)-1 <i>H</i> -tetrazole	C <sub>7</sub> H <sub>5</sub> BrN <sub>4</sub>
<b>63684-99-1</b>	05630	1-(3,4-Dichlorophenyl)-5-mercaptotetrazole	C <sub>7</sub> H <sub>4</sub> Cl <sub>2</sub> N <sub>4</sub> S
<b>654646-61-4</b>	66360	5-Amino-1-(4-carboxyphenyl)-1 <i>H</i> -tetrazole	C <sub>8</sub> H <sub>7</sub> N <sub>5</sub> O <sub>2</sub>
<b>73096-42-1</b>	00890	5-(2-Bromophenyl)-1 <i>H</i> -tetrazole	C <sub>7</sub> H <sub>5</sub> BrN <sub>4</sub>
<b>7624-35-3</b>	66250	1-tert-Butyl-5-mercaptotetrazole	C <sub>5</sub> H <sub>10</sub> N <sub>4</sub> S
<b>78190-05-3</b>	39850	1-(4-Carboxyphenyl)-1 <i>H</i> -tetrazole	C <sub>8</sub> H <sub>6</sub> N <sub>4</sub> O <sub>2</sub>
<b>80407-52-9</b>	04850	1-(4-Carbamoylphenyl)-5-mercaptotetrazole	C <sub>8</sub> H <sub>7</sub> N <sub>5</sub> OS
<b>86-93-1</b>	12580	1-Phenyl-5-mercaptotetrazole	C <sub>7</sub> H <sub>6</sub> N <sub>4</sub> S
<b>920283-23-4</b>	05751	Sodium 3-(5-mercapto-1-tetrazolyl)-benzene sulfonate monohydrate	C <sub>7</sub> H <sub>6</sub> N <sub>4</sub> O <sub>3</sub> S <sub>2</sub> Na·H <sub>2</sub> O
<b>92339-25-8</b>	66310	1-(3-Methoxycarbamidophenyl)-5-mercaptotetrazole	C <sub>9</sub> H <sub>9</sub> N <sub>5</sub> O <sub>2</sub> S
<b>92339-43-0</b>	66370	1-(3-Phenoxycarbamidophenyl)-5-mercaptotetrazole	C <sub>14</sub> H <sub>11</sub> N <sub>5</sub> O <sub>2</sub> S
<b>99229-76-2</b>	33541	1-(4-Carboxyphenyl)-5-mercaptotetrazole disodium salt	C <sub>8</sub> H <sub>6</sub> N <sub>4</sub> O <sub>2</sub> S

## 17. Thiazoles

CAS No.	CODE	CHEMICAL NAME	MOLECULAR FORMULA
-	03430	5-Methoxy-2-methylthio-3-(3-sulfopropyl)benzothiazolium betaine	C <sub>12</sub> H <sub>15</sub> NO <sub>4</sub> S <sub>3</sub>
<b>120-75-2</b>	13610	2-Methylbenzothiazole	C <sub>8</sub> H <sub>7</sub> NS
<b>1264175-54-3</b>	03080	3-(2-Hydroxyethyl)-2-(2-methylthio-1-butenyl)-5-methylbenzothiazolium methylsulfate	C <sub>15</sub> H <sub>20</sub> NOS <sub>2</sub> ·CH <sub>3</sub> O <sub>4</sub> S
<b>1314136-05-4</b>	02590	3-(2-Hydroxyethyl)-2-[2-(2-hydroxyethyl)-1-butenyl]-5-methylbenzothiazolium perchlorate	C <sub>16</sub> H <sub>22</sub> NO <sub>2</sub> S·ClO <sub>4</sub>
<b>141-84-4</b>	00280	Rhodanine	C <sub>3</sub> H <sub>3</sub> NOS <sub>2</sub>
<b>143173-90-4</b>	45820	3-Allyl-5-( <i>N</i> -ethylanylino)methylene-2-thioxothiazolidin-4-one	C <sub>15</sub> H <sub>16</sub> N <sub>2</sub> OS <sub>2</sub>
<b>144940-73-8</b>	12830	3-Carboxymethyl-5-[1-(3-methyl-2-thiazolidinylidene)-2-propylidene]rhodanine sodium salt	C <sub>12</sub> H <sub>14</sub> N <sub>2</sub> O <sub>3</sub> S <sub>3</sub> ,Na
<b>1457-47-2</b>	13570	3-Allylrhodanine	C <sub>6</sub> H <sub>7</sub> NOS <sub>2</sub>
<b>156589-82-1</b>	32190	Ethyl 4-isopropylthiazole-2-carboxylate	C <sub>9</sub> H <sub>13</sub> NO <sub>2</sub> S
<b>20328-87-4</b>	34020	2,2'-[(2-Carboxy- <i>p</i> -phenylene)bis(iminovinylene)]bis(3-ethyl-2-thiazolinium) diiodide	C <sub>21</sub> H <sub>28</sub> N <sub>4</sub> O <sub>2</sub> S <sub>2</sub> ·2I
<b>203785-75-5</b>	12950	3-Allyl-5-(3-ethyl-4-methyl-2-thiazolinylidene)rhodanine	C <sub>12</sub> H <sub>14</sub> N <sub>2</sub> OS <sub>3</sub>
<b>20686-62-8</b>	02170	2-Methylnaphtho[2,1- <i>d</i> ]thiazole	C <sub>12</sub> H <sub>9</sub> NS
<b>21331-43-1</b>	32090	2-Amino-4-(2-naphthyl)thiazole	C <sub>13</sub> H <sub>10</sub> N <sub>2</sub> S
<b>2346-00-1</b>	13920	2-Methyl-2-thiazoline	C <sub>4</sub> H <sub>7</sub> NS



<b>2682-45-3</b>	45930	2-Methylnaphtho[1,2-d]thiazole	C <sub>12</sub> H <sub>9</sub> NS
<b>2941-69-7</b>	45970	5-Methoxy-2-methylbenzothiazole	C <sub>9</sub> H <sub>9</sub> NOS
<b>2941-71-1</b>	60540	2,6-Dimethylbenzothiazole	C <sub>9</sub> H <sub>9</sub> NS
<b>300831-03-2</b>	32120	4-Carboxy-2-isopropylaminothiazole hydrobromide	C <sub>7</sub> H <sub>10</sub> N <sub>2</sub> O <sub>2</sub> S·HBr
<b>3176-77-0</b>	13510	2-Methyl-3-(3-sulfopropyl)naphtho[1,2-d]thiazolium betaine	C <sub>15</sub> H <sub>15</sub> NO <sub>3</sub> S <sub>2</sub>
<b>34330-15-9</b>	12810	3-Allyl-5-(1-methyl-2-pyridylidene)rhodanine	C <sub>12</sub> H <sub>12</sub> N <sub>2</sub> OS <sub>2</sub>
<b>40172-65-4</b>	46140	2-Aminonaphtho[1,2-d]thiazole	C <sub>11</sub> H <sub>8</sub> N <sub>2</sub> S
<b>50663-19-9</b>	12660	1,3-Dimethyl-5-[2-(3-methyl-2-thiazolidinylidene)ethylidene]-2-thioxoimidazolidin-4-one	C <sub>11</sub> H <sub>15</sub> N <sub>3</sub> OS <sub>2</sub>
<b>5351-51-9</b>	70220	4,5-Dimethylthiazole-2-thione	C <sub>5</sub> H <sub>7</sub> NS <sub>2</sub>
<b>536-17-4</b>	00360	5-(4-Dimethylaminobenzylidene)rhodanine	C <sub>12</sub> H <sub>12</sub> N <sub>2</sub> OS <sub>2</sub>
<b>55690-60-3</b>	46510	2-Mercapto-5-methoxybenzothiazole	C <sub>8</sub> H <sub>7</sub> NOS <sub>2</sub>
<b>56405-37-9</b>	43710	2-Methyl-3-(3-sulfopropyl)benzothiazolium betaine	C <sub>11</sub> H <sub>13</sub> NO <sub>3</sub> S <sub>2</sub>
<b>5683-41-0</b>	13840	2,5,6-Trimethylbenzothiazole	C <sub>10</sub> H <sub>11</sub> NS
<b>5685-06-3</b>	77980	2-Mercapto-4-methylthiazole	C <sub>4</sub> H <sub>5</sub> NS <sub>2</sub>
<b>5718-83-2</b>	13500	Rhodanine-3-acetic acid	C <sub>5</sub> H <sub>5</sub> NO <sub>3</sub> S <sub>2</sub>
<b>58480-17-4</b>	30410	2,3-Dimethylnaphtho[1,2-d]thiazolium tosylate	C <sub>13</sub> H <sub>12</sub> NS·C <sub>7</sub> H <sub>7</sub> O <sub>3</sub> S
<b>615-22-5</b>	45760	2-Methylthiobenzothiazole	C <sub>8</sub> H <sub>7</sub> NS <sub>2</sub>
<b>63149-01-9</b>	03410	5-Methoxy-2-methyl-3-(3-sulfopropyl)benzothiazolium betaine	C <sub>12</sub> H <sub>15</sub> NO <sub>4</sub> S <sub>2</sub>
<b>63149-05-3</b>	13520	2-Methylthio-3-(3-sulfopropyl)benzothiazolium betaine	C <sub>11</sub> H <sub>13</sub> NO <sub>3</sub> S <sub>3</sub>
<b>68239-70-3</b>	74270	Triethylammonium 5-(3-ethylbenzothiazol-2(3H)-ylidene)-4-oxo-2-thioxothiazolidine-3-acetate	C <sub>20</sub> H <sub>27</sub> N <sub>3</sub> O <sub>3</sub> S <sub>3</sub>
<b>68930-73-4</b>	45790	2,6-Dimethyl-5-ethoxybenzothiazole	C <sub>11</sub> H <sub>13</sub> NOS
<b>7025-19-6</b>	07490	<i>N</i> -(2-Carboxyethyl)-2-thioxothiazolidin-4-one	C <sub>6</sub> H <sub>7</sub> NO <sub>3</sub> S
<b>71216-20-1</b>	32070	5-Bromo-2-mercaptobenzothiazole	C <sub>7</sub> H <sub>4</sub> BrNS <sub>2</sub>
<b>74385-09-4</b>	12390	<i>N</i> -Carboxymethylbenzothiazolium bromide	C <sub>9</sub> H <sub>8</sub> NO <sub>2</sub> S·Br
<b>7648-01-3</b>	13590	3-Ethylrhodanine	C <sub>5</sub> H <sub>7</sub> NOS <sub>2</sub>
<b>884241-42-3</b>	30280	5-Diethylamino- <i>N</i> -ethyl-2-methylbenzothiazolium iodide	C <sub>14</sub> H <sub>21</sub> N <sub>2</sub> S·I
<b>93857-83-1</b>	34040	2-{3-Allyl-5-[2-(1-ethyl-4(1H)-quinolinylidene)ethylidene]-4-oxo-2-thiazolidinylidene}methyl-5,6-dimethyl-3-ethylbenzoxazolium bromide	C <sub>31</sub> H <sub>32</sub> N <sub>3</sub> O <sub>2</sub> S·Br
<b>95-26-1</b>	13650	2,5-Dimethylbenzothiazole	C <sub>9</sub> H <sub>9</sub> NS
<b>97453-89-9</b>	13860	4,5-Diphenyl-3-ethyl-2-methylthiazolium iodide	C <sub>18</sub> H <sub>18</sub> NS·I

**18. Thio and Urea Compounds**

CAS No.	CODE	CHEMICAL NAME	MOLECULAR FORMULA
100-32-3	62710	<i>p</i> -Nitrophenyldisulfide	C <sub>12</sub> H <sub>8</sub> N <sub>2</sub> O <sub>4</sub> S <sub>2</sub>
103-72-0	22070	Phenylisothiocyanate	C <sub>7</sub> H <sub>5</sub> NS
105-81-7	67360	<i>N</i> -Allyl- <i>N'</i> -(2-hydroxyethyl)thiourea	C <sub>6</sub> H <sub>12</sub> N <sub>2</sub> OS
118-72-9	83840	2,6-Dimethylbenzenethiol	C <sub>8</sub> H <sub>10</sub> S
142-46-1	35190	2,5-Dithiobiurea	C <sub>2</sub> H <sub>6</sub> N <sub>4</sub> S <sub>2</sub>
14371-84-7	45540	4-Methoxy-2-nitrophenyldisulfide	C <sub>14</sub> H <sub>12</sub> N <sub>2</sub> O <sub>6</sub> S <sub>2</sub>
16982-21-1	35370	Ethylthioxamate	C <sub>4</sub> H <sub>7</sub> NO <sub>2</sub> S
2253-73-8	37700	Isopropyl isothiocyanate	C <sub>4</sub> H <sub>7</sub> NS
2284-20-0	00720	4-Methoxyphenylisothiocyanate	C <sub>8</sub> H <sub>7</sub> NOS
2445-60-5	12820	1,3-Dimethyl-5-[2-(1-methyl-2-pyrrolidinylidene)ethylidene]-2-thiohydantoine	C <sub>12</sub> H <sub>17</sub> N <sub>3</sub> OS
28984-20-5	11800	Bis(dithiobenzil)nickel	C <sub>28</sub> H <sub>20</sub> NiS <sub>4</sub>
335086-35-6	69290	3-Carboxymethyl-1,3-dimethyl-thioureido acetic acid, di-sodium salt	C <sub>7</sub> H <sub>10</sub> N <sub>2</sub> O <sub>4</sub> S, 2Na
38465-55-3	17301	Bis(4-dimethylaminodithiobenzil)nickel	C <sub>32</sub> H <sub>30</sub> N <sub>2</sub> NiS <sub>4</sub>
38951-97-2	11810	Bis(4,4'-dimethoxydithiobenzil)nickel	C <sub>32</sub> H <sub>28</sub> NiO <sub>4</sub> S <sub>4</sub>
4430-45-9	45160	Octylisothiocyanate	C <sub>9</sub> H <sub>17</sub> NS
5108-96-3	68480	Ammonium pyrrolidinodithiocarboxylate	C <sub>5</sub> H <sub>12</sub> N <sub>2</sub> S <sub>2</sub>
57-06-7	21220	Allyl isothiocyanate	C <sub>4</sub> H <sub>5</sub> NS
58064-52-1	04210	1-Formyl-4-methyl-3-thiosemicarbazide	C <sub>3</sub> H <sub>7</sub> N <sub>3</sub> OS
590-42-1	34200	<i>tert</i> -Butyl isothiocyanate	C <sub>5</sub> H <sub>9</sub> NS
6610-29-3	04190	4-Methyl-3-thiosemicarbazide	C <sub>2</sub> H <sub>7</sub> N <sub>3</sub> S
71215-88-8	02320	4-Methyl-2-nitrophenyl thiocyanate	C <sub>8</sub> H <sub>6</sub> N <sub>2</sub> O <sub>2</sub> S
7357-70-2	47100	2-Cyanothioacetamide	C <sub>3</sub> H <sub>4</sub> N <sub>2</sub> S
86-88-4	46320	1-Naphthylthiourea	C <sub>11</sub> H <sub>10</sub> N <sub>2</sub> S

**19. Triazoles**

CAS No.	CODE	CHEMICAL NAME	MOLECULAR FORMULA
16691-43-3	50010	3-Amino-5-mercapto-1,2,4-triazole	C <sub>2</sub> H <sub>4</sub> N <sub>4</sub> S
24854-43-1	01740	3-Mercapto-4-methyl-1,2,4-triazole	C <sub>3</sub> H <sub>5</sub> N <sub>3</sub> S
27105-98-2	73770	4-Ethyl-4 <i>H</i> -1,2,4-triazole-3-thiol	C <sub>4</sub> H <sub>7</sub> N <sub>3</sub> S
3179-31-5	15110	3-Mercapto-1,2,4-triazole	C <sub>2</sub> H <sub>3</sub> N <sub>3</sub> S
45534-08-5	04360	3-Amino-5-methylthio-1,2,4-triazole	C <sub>3</sub> H <sub>6</sub> N <sub>4</sub> S
74682-60-3	32400	3-Hexylthio-1,2,4-triazole	C <sub>8</sub> H <sub>15</sub> N <sub>3</sub> S