

**Table S1: List of flavonoids isolated from different *Salsola* species**

No	Compound Name	Source	Molecular Formula	Molecular weight g/mol	References
1	Quercetin	<i>S. kali</i> <i>S. imbricata</i> <i>S. baryosma</i> ( <i>S. foetida</i> ) <i>S. volkensis</i> , <i>S. collina</i> , <i>S. grandis</i> <i>S. longifolia</i> <i>S. tetrandra</i> <i>S. vermiculata</i>	C <sub>15</sub> H <sub>10</sub> O <sub>7</sub>	302.2	[1–11]
2	Quercetin-3-O-methyl ether	<i>S. grandis</i>	C <sub>16</sub> H <sub>12</sub> O <sub>7</sub>	316.3	[3,4]
3	Quercetin-3-O-glucoside (Isoquercitrin)	<i>S. kali</i> <i>S. volkensis</i> <i>S. tetragona</i> <i>S. collina</i> <i>S. soda</i> <i>S. komarovii</i>	C <sub>21</sub> H <sub>20</sub> O <sub>12</sub>	464.4	[8,12–15]
4	Quercetin-3-O-glactoside (Hyperoside)	<i>S. grandis</i>	C <sub>21</sub> H <sub>20</sub> O <sub>12</sub>	464.4	[3,4]
5	Quercetin-3-O-rhamnoside (Quercitrin)	<i>S. kali</i> <i>S. longifolia</i> <i>S. grandis</i> <i>S. imbricata</i>	C <sub>21</sub> H <sub>20</sub> O <sub>11</sub>	448.4	[3,4,6–8]
6	Quercetin-3-O-rutinoside (rutin)	<i>S. kali</i> <i>S. tetragona</i> <i>S. tetrandra</i> <i>S. volkensis</i> <i>S. inermis</i> <i>S. collina</i> <i>S. imbricata</i> <i>S. grandis</i> <i>S. komarovii</i> <i>S. vermiculata</i> <i>S. soda</i>	C <sub>27</sub> H <sub>30</sub> O <sub>16</sub>	610.5	[1,3–6,8,10,14,15]
7	Rhamnetin	<i>S. kali</i>	C <sub>16</sub> H <sub>12</sub> O <sub>7</sub>	316.3	[8,9]
8	Isorhmnetin	<i>S. collina</i> <i>S. imbricata</i> <i>S. komarovii</i>	C <sub>16</sub> H <sub>12</sub> O <sub>7</sub>	316.3	[1,10,13,15,16]
9	Isorhmnetin-3-O-glucoside	<i>S. kali</i> <i>S. grandis</i> <i>S. oppositifolia</i> <i>S. komarovii</i> <i>S. collina</i> <i>S. imbricata</i> <i>S. tetrandra</i> <i>S. inermis</i> <i>S. vermiculate</i>	C <sub>22</sub> H <sub>22</sub> O <sub>12</sub>	478.4	[3–5,9,10,13,15–19]

No	Compound Name	Source	Molecular Formula	Molecular weight g/mol	References
10	Isorhmnetin-3-O-glucouronide	<i>S. grandis</i> <i>S. soda</i>	C <sub>22</sub> H <sub>20</sub> O <sub>13</sub>	492.4	[3,4,14]
11	Isorhmnetin-3-O-galactopyranoside	<i>S. imbricata</i>	C <sub>22</sub> H <sub>22</sub> O <sub>12</sub>	478	[16]
12	Isorhmnetin-7-O-glucoside	<i>S. collina</i>	C <sub>22</sub> H <sub>22</sub> O <sub>12</sub>	478.4	[19]
13	Isorhmnetin-3-O-rutinoside (Narcissin)	<i>S. kali</i> <i>S. grandis</i> <i>S. oppositifolia</i> <i>S. collina</i> <i>S. vermiculata</i> <i>S. komarovii</i> <i>S. tetrandra</i> <i>S. soda</i>	C <sub>28</sub> H <sub>32</sub> O <sub>16</sub>	624.5	[3–5,9,13–15,18]
14	Isorhmnetin-3-O-B-D-glucuronyl(1"→4") B-D-glucuronic acid	<i>S. imbricata</i>	-	-	[16]
15	Isorhmnetin-3-O-B-D-diglucuronate dimethyl ester	<i>S. imbricata</i>	-	-	[16]
16	Isorhamnetin-3-O-α-L-arabinopyranosyl(1→6)- β-D-glucopyranoside	<i>S. collina</i>	C <sub>26</sub> H <sub>29</sub> O <sub>16</sub>	597	[19]
17	Manghaslin	<i>S. grandis</i>	C <sub>33</sub> H <sub>40</sub> O <sub>20</sub>	756.7	[3,4]
18	Kaempferol	<i>S. kail</i> <i>S. longifolia</i> <i>S. tetrandra</i> <i>S. inermis</i> <i>S. collina</i> <i>S. baryosma</i> <i>S. vermiculata</i>	C <sub>15</sub> H <sub>10</sub> O <sub>6</sub>	286.2	[2,8,10,14]
19	Kaempferol-3-methyl ether	<i>S. inermis</i>	C <sub>16</sub> H <sub>12</sub> O <sub>6</sub>	300.3	[17]
20	Kaempferol-3-O- glucoside (astragalin)	<i>S. komarovii</i> <i>S. tetragona</i> <i>S. inermis</i>	C <sub>21</sub> H <sub>20</sub> O <sub>11</sub>	448.4	[12,15,17]
21	Kaempferol-3-O- rutinoside	<i>S. komarovii</i>	C <sub>27</sub> H <sub>30</sub> O <sub>15</sub>	594.5	[15]
22	Tiliroside	<i>S. grandis</i>	C <sub>30</sub> H <sub>26</sub> O <sub>13</sub>	594.5	[3,4]
23	Salcolin A	<i>S. collina</i>	C <sub>27</sub> H <sub>26</sub> O <sub>11</sub>	526.5	[20]
24	Salcolin B	<i>S. collina</i>	C <sub>27</sub> H <sub>26</sub> O <sub>11</sub>	526.5	[20]
25	Apigenin	<i>S. imbricata</i>	C <sub>15</sub> H <sub>10</sub> O <sub>5</sub>	270.2	[6]
26	Tricin	<i>S. collina</i>	C <sub>17</sub> H <sub>14</sub> O <sub>7</sub>	330.3	[1,13,19]
27	Selagin	<i>S. collina</i>	C <sub>16</sub> H <sub>12</sub> O <sub>7</sub>	316.3	[19]
28	Tricin-7-O-glucoside	<i>S. collina</i>	C <sub>23</sub> H <sub>24</sub> O <sub>12</sub>	492.4	[1,13,19]
29	Tricin-4'-O- β-D-apioside	<i>S. collina</i>	C <sub>43</sub> H <sub>42</sub> O <sub>21</sub>	894	[19]
30	Chrysoeriol-7-O-B-D-glucopyranoside	<i>S. baryosma</i>	C <sub>22</sub> H <sub>22</sub> O <sub>11</sub>	462.4	[21]
31	Chrysin	<i>S. imbricata</i>	C <sub>15</sub> H <sub>10</sub> O <sub>4</sub>	254.2	[6]
32	5,3'-Dihydroxy-7,8,2'-	<i>S. somalensis</i>	C <sub>18</sub> H <sub>16</sub> O <sub>7</sub>	344	[22]

No	Compound Name	Source	Molecular Formula	Molecular weight g/mol	References
	trimethoxy isoflavone				
33	5,3'-Dihydroxy-2'-methoxy-6,7-methylenedioxyisoflavone	<i>S. somalensis</i>	C <sub>17</sub> H <sub>12</sub> O <sub>7</sub>	328	[22]
34	5,3'-Dihydroxy-6,7,8,2'-tetramethoxyisoflavone	<i>S. somalensis</i>	C <sub>19</sub> H <sub>18</sub> O <sub>8</sub>	374	[22]
35	5,3'-Dihydroxy-6,7,2'-trimethoxyisoflavone	<i>S. somalensis</i>	C <sub>18</sub> H <sub>16</sub> O <sub>7</sub>	344	[23]
36	5,8,3'-Trihydroxy-7,2'-dimethoxyisoflavone	<i>S. somalensis</i>	C <sub>17</sub> H <sub>14</sub> O <sub>7</sub>	330	[23]
37	8,3'-Dihydroxy-5,7,2'-trimethoxyisoflavone	<i>S. somalensis</i>	C <sub>18</sub> H <sub>16</sub> O <sub>7</sub>	344	[23]
38	5,6,3'-Trihydroxy-7,2'dimethoxyisoflavone	<i>S. somalensis</i>	C <sub>17</sub> H <sub>14</sub> O <sub>7</sub>	330	[23]
39	6,7,3'-Trihydroxy5,2'-dimethoxyisoflavone	<i>S. somalensis</i>	C <sub>17</sub> H <sub>14</sub> O <sub>7</sub>	330	[23]
40	5,6,3'-Trihydroxy-2'-methoxy-7,8-methylenedioxy isoflavone OR 5,8,3'-Trihydroxy-2'-methoxy-6,7-methylendioxyisoflavone	<i>S. somalensis</i>	C <sub>17</sub> H <sub>12</sub> O <sub>8</sub>	344	[23]
41	3'-Hydroxy-5,6,7,2'-tetramethoxyisoflavone	<i>S. somalensis</i>	C <sub>19</sub> H <sub>18</sub> O <sub>7</sub>	358	[23]
42	7,3'-Dihydroxy-5,6,2'-trimethoxyisoflavone	<i>S. somalensis</i>	C <sub>18</sub> H <sub>16</sub> O <sub>7</sub>	344	[23]
43	6,3'-Dihydroxy-5,7,2'-trimethoxyisoflavone	<i>S. somalensis</i>	C <sub>18</sub> H <sub>16</sub> O <sub>7</sub>	344	[23]
44	5,7,8,2',3'-Pentamethoxyisoflavone	<i>S. somalensis</i>	C <sub>20</sub> H <sub>20</sub> O <sub>7</sub>	372	[22]
45	5,2',3'-Trimethoxy-6,7-methylendioxyisoflavone	<i>S. somalensis</i>	-	-	[22]
46	Salisoflavan	<i>S. imbricata</i>	C <sub>17</sub> H <sub>18</sub> O <sub>6</sub>	318.1	[24]
47	5,2'-Dihydroxy-6,7-methylenedioxyisoflavone	<i>S. collina</i>	C <sub>16</sub> H <sub>10</sub> O <sub>6</sub>	298	[1]
48	Tetranin B	<i>S. tetrandra</i>	C <sub>17</sub> H <sub>12</sub> O <sub>7</sub>	329.1	[25]
49	Naringenin	<i>S. imbricata</i>	C <sub>15</sub> H <sub>12</sub> O <sub>5</sub>	272.3	[6]
50	Hesperetin	<i>S. imbricata</i>	C <sub>16</sub> H <sub>14</sub> O <sub>6</sub>	302.3	[6]
51	Hesperidin	<i>S. imbricata</i>	C <sub>28</sub> H <sub>34</sub> O <sub>15</sub>	610.6	[6]
52	Catechin	<i>S. imbricata</i>	C <sub>15</sub> H <sub>14</sub> O <sub>6</sub>	290.3	[6]
53	(-) Epicatechin	In the most of the <i>Salsola</i> species except <i>kali</i> and <i>tetragona</i>	C <sub>15</sub> H <sub>14</sub> O <sub>6</sub>	290.3	[8]

**Table S2: List of phenolic compounds isolated from different *Salsola* species**

No	Compound Name	Source	Molecular Formula	Molecular weight g/mol	References
54	Hydroxy tyrosol-4'-glucopyranoside (Biphenol 2)	<i>S. komarovii</i>	C <sub>14</sub> H <sub>24</sub> O <sub>9</sub>	336	[26]
55	2-(3,4-dihydroxy)-Phenyl-ethyl-B-D-glucopyranoside	<i>S. komarovii</i>	-	-	[26]
56	Cuneataside C	<i>S. komarovii</i>	C <sub>19</sub> H <sub>28</sub> O <sub>12</sub>	448.4	[26]
57	Benzyl-6-O-B-D-apiofuranosyl-B-D-glucopyranoside	<i>S. komarovii</i>	-	-	[26]
58	Catechol	<i>S. imbricata</i>	C <sub>6</sub> H <sub>6</sub> O <sub>2</sub>	110.1	[6]
59	Tetranin A	<i>S. tetrandra</i>	C <sub>15</sub> H <sub>16</sub> O <sub>4</sub>	260	[25]
60	Biphenylsalsinol	<i>S. villosa</i>	C <sub>20</sub> H <sub>22</sub> O <sub>6</sub>	381	[27]
61	Biphenylsalsonoid B	<i>S. imbricata</i>	C <sub>21</sub> H <sub>24</sub> O <sub>8</sub>	404	[28]
62	Biphenylsalsonoid A	<i>S. imbricata</i>	C <sub>20</sub> H <sub>22</sub> O <sub>7</sub>	374	[28]
63	Acanthoside D	<i>S. collina</i>	C <sub>34</sub> H <sub>46</sub> O <sub>18</sub>	742.7	[19]
64	Salsolide	<i>S. baryosma</i>	C <sub>32</sub> H <sub>32</sub> O <sub>11</sub>	591.2	[29]
65	Phloroglucin	<i>S. tetrandra</i> <i>S. tetragona</i> <i>S. volkensii</i>	C <sub>6</sub> H <sub>6</sub> O <sub>3</sub>	126	[8]
66	3,4,5-Trimethoxyphenyl-B-D-glucopyranoside	<i>S. tetrandra</i>	C <sub>15</sub> H <sub>22</sub> O <sub>9</sub>	346	[30]
67	Canthoside C	<i>S. tetragona</i> <i>S. komarovii</i>	C <sub>18</sub> H <sub>26</sub> O <sub>12</sub>	434.4	[12,26]
68	Canthoside D	<i>S. tetragona</i>	C <sub>18</sub> H <sub>26</sub> O <sub>12</sub>	434.1	[12]
69	Tachioside	<i>S. komarovii</i>	C <sub>13</sub> H <sub>18</sub> O <sub>8</sub>	302.3	[26]
70	Isotachioside	<i>S. komarovii</i>	C <sub>13</sub> H <sub>18</sub> O <sub>8</sub>	302.3	[26]

**Table S3: List of phenolic acids isolated from different *Salsola* species**

No	Compound Name	Source	Molecular Formula	Molecular weight g/mol	References
71	<i>p</i> -Hydroxybenzoic acid	<i>S. kali</i> <i>S. collina</i> <i>S. imbricata</i>	C <sub>7</sub> H <sub>6</sub> O <sub>3</sub>	138.1	[1,16,31,32]
72	Salicylic acid	<i>S. collina</i> <i>S. imbricate</i> <i>S. vermiculata</i>	C <sub>7</sub> H <sub>6</sub> O <sub>3</sub>	138.1	[1,6,19,32]
73	Anisic acid	<i>S. collina</i>	C <sub>8</sub> H <sub>8</sub> O <sub>3</sub>	152.1	[1]
74	Benzoic acid	<i>S. imbricata</i>	C <sub>7</sub> H <sub>6</sub> O <sub>2</sub>	122.1	[6]
75	Protocatechuic acid	<i>S. kali</i> <i>S. longifolia</i> <i>S. tetragona</i> <i>S. collina</i> <i>S. imbricate</i> <i>S. vermiculata</i>	C <sub>7</sub> H <sub>6</sub> O <sub>4</sub>	154.1	[6,8,31,32]
76	Gallic acid	<i>S. kali</i> <i>S. imbricate</i> <i>S. vermiculata</i>	C <sub>7</sub> H <sub>6</sub> O <sub>5</sub>	170.1	[6,8]
77	Syringic acid	<i>S. kali</i> <i>S. collina</i>	C <sub>9</sub> H <sub>10</sub> O <sub>5</sub>	198.2	[31,32]
78	Vanillic acid	<i>S. kali</i> <i>S. tetragona</i> <i>S. collina</i> <i>S. imbricate</i> <i>S. vermiculata</i>	C <sub>8</sub> H <sub>8</sub> O <sub>4</sub>	168.1	[6,12,31,32]
79	Protocatechuic aldehyde	<i>S. collina</i>	C <sub>7</sub> H <sub>6</sub> O <sub>3</sub>	138.1	[1]
80	α- resorcylic	<i>S. kali</i>	C <sub>7</sub> H <sub>6</sub> O <sub>4</sub>	154.1	[31]
81	β-resorcylic	<i>S. kali</i>	C <sub>7</sub> H <sub>6</sub> O <sub>4</sub>	154.1	[31]
82	Gentisic acid	<i>S. kali</i> <i>S. longifolia</i>	C <sub>7</sub> H <sub>6</sub> O <sub>4</sub>	154.1	[8,31]
83	Isovanillic acid	<i>S. imbricata</i>	C <sub>8</sub> H <sub>8</sub> O <sub>4</sub>	168.1	[16]
84	Hypogallic acid	<i>S. kali</i> <i>S. tetrandra</i> <i>S. volkensii</i> <i>S. inermis</i>	C <sub>7</sub> H <sub>6</sub> O <sub>4</sub>	154.1	[8]
85	Orsellic acid	<i>S. collina</i>	C <sub>8</sub> H <sub>8</sub> O <sub>4</sub>	168.1	[32]
86	<i>p</i> -Hydroxyphenylacetic	<i>S. kali</i>	C <sub>8</sub> H <sub>8</sub> O <sub>3</sub>	152.1	[31]
87	Rosmarinic acid	<i>S. imbricate</i> <i>S. vermiculata</i>	C <sub>18</sub> H <sub>16</sub> O <sub>8</sub>	360.3	[6,7]
88	<i>p</i> -Hydroxycinnamic acid	<i>S. collina</i> <i>S. kali</i> <i>S. imbricata</i>	C <sub>9</sub> H <sub>8</sub> O <sub>3</sub>	164.2	[1,6,19,31–33]
89	Caffeic acid	<i>S. kali</i> <i>S. collina</i> <i>S. imbricate</i> <i>S. vermiculata</i>	C <sub>9</sub> H <sub>8</sub> O <sub>4</sub>	180.2	[6,11,31,32]

No	Compound Name	Source	Molecular Formula	Molecular weight g/mol	References
90	Ferulic acid	<i>S. kali</i> <i>S. collina</i> <i>S. imbricate</i> <i>S. vermiculata</i>	C <sub>10</sub> H <sub>10</sub> O <sub>4</sub>	194.2	[6,11,16,19,31,32]
91	Cinnamic acid	<i>S. imbricate</i> <i>S. vermiculata</i>	C <sub>9</sub> H <sub>8</sub> O <sub>2</sub>	148.2	[6]
92	Acetyl ferulic acid	<i>S. collina</i>	C <sub>12</sub> H <sub>12</sub> O <sub>5</sub>	236.2	[1]
93	Chlorogenic acid	<i>S. imbricata</i> <i>S. kali</i>	C <sub>16</sub> H <sub>18</sub> O <sub>9</sub>	354.3	[6,11]
94	Neochlorogenic acid	<i>S. kali</i>	C <sub>16</sub> H <sub>18</sub> O <sub>9</sub>	354.3	[11]
95	Isochlorogenic acid	<i>S. kali</i>	C <sub>25</sub> H <sub>24</sub> O <sub>12</sub>	516.4	[11]

**Table S4: List of nitrogenous compounds isolated from different *Salsola* species**

No	Compound Name	Source	Molecular Formula	Molecular weight g/mol	References
96	Moupinamide	<i>S. collina</i>	C <sub>18</sub> H <sub>19</sub> NO <sub>4</sub>	313.3	[1]
97	2'-Hydroxymoupinamide	<i>S. collina</i>	C <sub>18</sub> H <sub>21</sub> NO <sub>5</sub>	331	[1]
98	2'-Hydroxy- 3''-methylmoupinamide	<i>S. collina</i>	C <sub>19</sub> H <sub>23</sub> NO <sub>6</sub>	361	[1]
99	N-[2'-(3'',4''-Dihydroxyphenyl)-2'-hydroxyethyl]-3-(4'''-methoxyphenyl)prop-2-enamide	<i>S. foetida</i>	C <sub>18</sub> H <sub>19</sub> NO <sub>5</sub>	329	[34]
100	N-[2'-(3'',4''-Dihydroxyphenyl)-2'-hydroxyethyl]-3-(3'''',4'''-dimethoxyphenyl)prop-2-enamide	<i>S. foetida</i>	C <sub>19</sub> H <sub>21</sub> NO <sub>6</sub>	359	[34]
101	N-[2'-(3''-Hydroxy-4''-methoxyphenyl)-2'-hydroxyethyl]3-(4'''-methoxyphenyl)-prop-2-enamide	<i>S. foetida</i>	C <sub>19</sub> H <sub>21</sub> NO <sub>5</sub>	343	[34]
102	N-trans-feruloyl 3-O-methyldopamine	<i>S. collina</i> <i>S. komarovii</i>	C <sub>19</sub> H <sub>21</sub> NO <sub>5</sub>	343	[15,33,35]
103	N-trans-feruloyl tyramine	<i>S. komarovii</i> <i>S. tetrandra</i> <i>S. imbricata</i> <i>S. vermiculata</i> <i>S. tetrandra</i>	C <sub>18</sub> H <sub>19</sub> NO <sub>4</sub>	313.3	[5,15,16,30]
104	trans-N-feruloyltyramine-4'''-O-B-D-glucopyranoside	<i>S. inermis</i>	C <sub>24</sub> H <sub>30</sub> NO <sub>9</sub>	476.3	[17]
105	S-(-)-trans-N-feruloyloctopamine	<i>S. tetrandra</i>	C <sub>18</sub> H <sub>19</sub> NO <sub>5</sub>	329.3	[30]
106	N-Caffeoyltyramine	<i>S. vermiculata</i> <i>S. tetrandra</i>	C <sub>17</sub> H <sub>17</sub> NO <sub>4</sub>	299.3	[5]
107	N-Feruloyl- 3'''-methoxytyramine	<i>S. vermiculata</i> <i>S. tetrandra</i>	C <sub>19</sub> H <sub>21</sub> NO <sub>5</sub>	343.3	[5]

No	Compound Name	Source	Molecular Formula	Molecular weight g/mol	References
108	<i>N</i> -(3',4'-Dimethoxy-cinnamoyl)-norepinephrine	<i>S. vermiculata</i> <i>S. tetrandra</i>	C <sub>19</sub> H <sub>21</sub> NO <sub>6</sub>	359.3	[5]
109	<i>N</i> -(4'-Methoxy-cinnamoyl)-norepinephrine	<i>S. vermiculata</i> <i>S. tetrandra</i>	C <sub>18</sub> H <sub>19</sub> NO <sub>5</sub>	329.3	[5]
110	Salsoline	<i>S. collina</i> <i>S. kali</i> ( <i>S. tragus</i> ) <i>S. soda</i> <i>S. oppositifolia</i> <i>S. vermiculata</i>	C <sub>11</sub> H <sub>15</sub> NO <sub>2</sub>	193.2	[18,36–38]
111	<i>N</i> -Methylisosalsolidine	<i>S. tragus</i> <i>S. soda</i> <i>S. oppositifolia</i>	C <sub>12</sub> H <sub>17</sub> NO <sub>2</sub>	207.3	[38]
112	Salsolidine	<i>S. collina</i> <i>S. kali</i> ( <i>S. tragus</i> ) <i>S. soda</i> <i>S. oppositifolia</i> <i>S. vermiculata</i>	C <sub>12</sub> H <sub>17</sub> NO <sub>2</sub>	207.3	[18,36–38]
113	Carnegine	<i>S. soda</i> <i>S. kali</i> <i>S. oppositifolia</i>	C <sub>13</sub> H <sub>19</sub> NO <sub>2</sub>	221.3	[37,38]
114	Salsoline A	<i>S. tetrandra</i> <i>S. vermiculata</i> <i>S. collina</i>	C <sub>12</sub> H <sub>13</sub> NO <sub>3</sub>	219	[1,5,33,35]
115	Salsoline B	<i>S. collina</i>	C <sub>12</sub> H <sub>13</sub> NO <sub>3</sub>	219	[33]
116	<i>N</i> -(4-methylpentanoyl) tyramine	<i>S. vermiculata</i>	C <sub>14</sub> H <sub>21</sub> NO <sub>2</sub>	235	[5]
117	Uracil	<i>S. collina</i>	C <sub>4</sub> H <sub>4</sub> N <sub>2</sub> O <sub>2</sub>	112.1	[1]
118	Uridine	<i>S. collina</i>	C <sub>9</sub> H <sub>12</sub> N <sub>2</sub> O <sub>6</sub>	244.2	[1]
119	Terrestric acid	<i>S. collina</i>	C <sub>4</sub> H <sub>5</sub> N <sub>4</sub> O <sub>3</sub>	157	[1]
120	Pericampylinone-A	<i>S. collina</i>	C <sub>9</sub> H <sub>9</sub> NO <sub>3</sub>	179.2	[1]
121	<i>N</i> -Acetyltryptophan	<i>S. collina</i> <i>S. grandis</i>	C <sub>13</sub> H <sub>14</sub> N <sub>2</sub> O <sub>3</sub>	246.3	[1,3,4]
122	Betaine	<i>S. rigida</i> <i>S. longifolia</i> <i>S. kali</i> <i>S. tetrandra</i>	C <sub>5</sub> H <sub>11</sub> NO <sub>2</sub>	117.2	[39]
123	Methyl carbamate	<i>S. rigida</i> <i>S. longifolia</i> <i>S. kali</i> <i>S. tetrandra</i>	C <sub>2</sub> H <sub>5</sub> NO <sub>2</sub>	75.1	[40]
124	Salisomide	<i>S. imbricata</i>	C <sub>38</sub> H <sub>69</sub> NO <sub>2</sub>	571.5	[24]
125	Triacetoneamine	<i>S. kali</i> <i>S. tetrandra</i> <i>S. rigida</i> <i>S. longifolia</i>	C <sub>9</sub> H <sub>17</sub> NO	155.2	[39]
126	Tridecanamine	<i>S. tetrandra</i>	C <sub>13</sub> H <sub>29</sub> N	199.4	[41]

**Table S5: List of saponin compounds isolated from different *Salsola* species**

No	Compound Name	Source	Molecular Formula	Molecular weight g/mol	References
127	Momordin II b	<i>S. grandis</i>	C <sub>42</sub> H <sub>66</sub> O <sub>14</sub>	794	[3,4,42]
128	Momordin II c	<i>S. grandis</i> <i>S. soda</i>	C <sub>47</sub> H <sub>74</sub> O <sub>18</sub>	926	[3,4]
129	Pseudoginseoside RT1	<i>S. imbricata</i>	C <sub>47</sub> H <sub>74</sub> O <sub>18</sub>	926	[42]
130	Salsoloside C	<i>S. micranthera</i>	C <sub>47</sub> H <sub>74</sub> O <sub>18</sub>	926	[43,44]
131	Salsoloside D	<i>S. micranthera</i>	C <sub>47</sub> H <sub>74</sub> O <sub>19</sub>	942	[43,44]
132	Salsoloside E	<i>S. micranthera</i>	C <sub>53</sub> H <sub>84</sub> O <sub>23</sub>	1088	[43,44]
133	Olean-12-en-28-oic acid (Oleanolic acid)	<i>S. inermis</i>	C <sub>30</sub> H <sub>48</sub> O <sub>3</sub>	456	[17]
134	Olean-12-en-3,28-diol	<i>S. inermis</i>	C <sub>30</sub> H <sub>50</sub> O <sub>2</sub>	442	[17]
135	Boussingoside A2	<i>S. imbricata</i>	C <sub>41</sub> H <sub>62</sub> O <sub>14</sub>	778	[42]
136	3-O-B-D-xylopyranosyl-(1-2)-O-B-D-glucuronopyranosyl-akebonic acid-28-O-B-D-glucopyranoside	<i>S. imbricata</i>	C <sub>46</sub> H <sub>70</sub> O <sub>18</sub>	910	[42]
137	3-O-B-D-xylopyranosyl-(1-2)-O-B-D-glucuronopyranosyl-29-hydroxyoleanolic acid-28-O-B-D-glucopyranoside	<i>S. imbricata</i>	C <sub>47</sub> H <sub>74</sub> O <sub>19</sub>	942	[42]

**Table S6: List of triterpenes isolated from different *Salsola* species**

No	Compound Name	Source	Molecular Formula	Molecular weight g/mol	References
138	Corchoionoside C	<i>S. collina</i>	C <sub>19</sub> H <sub>30</sub> O <sub>8</sub>	386.4	[1]
139	Lupeol	<i>S. kali</i>	C <sub>30</sub> H <sub>50</sub> O	426.7	[45]
140	Salsolic acid	<i>S. baryosma</i>	C <sub>30</sub> H <sub>48</sub> O <sub>5</sub>	488.7	[46]
141	Ursolic acid	<i>S. kali</i>	C <sub>30</sub> H <sub>48</sub> O <sub>3</sub>	456.7	[45]
142	Salsolin A	<i>S. baryosma</i>	C <sub>30</sub> H <sub>48</sub> O <sub>6</sub>	504	[46]
143	Salsolin B	<i>S. baryosma</i>	C <sub>36</sub> H <sub>59</sub> O <sub>12</sub>	683	[46]
144	2 $\alpha$ ,3 $\beta$ ,23,24-tetrahydroxyurs-12-en-28-oic acid	<i>S. baryosma</i>	C <sub>30</sub> H <sub>48</sub> O <sub>6</sub>	504	[46]



**Table S7: List of sterols isolated from different *Salsola* species**

No	Compound Name	Source	Molecular Formula	Molecular weight g/mol	References
145	Sitostanol = Stigmastanol	<i>S. collina</i> <i>S. kali</i> <i>S. tetrandra</i> <i>S. rigida</i> <i>S. longifolia</i> <i>S. inermis</i>	C <sub>29</sub> H <sub>52</sub> O	416.7	[10,13]
146	Stigmasterol	<i>S. kali</i> <i>S. tetrandra</i> <i>S. rigida</i> <i>S. longifolia</i> <i>S. inermis</i> <i>S. collina</i>	C <sub>29</sub> H <sub>48</sub> O	412	[10,13,17,47,48]
147	Stigmasterol- 3- $\beta$ -O-D-glucopyranoside	<i>S. inermis</i>	C <sub>35</sub> H <sub>58</sub> O <sub>6</sub>	574.8	[17]
148	Avenasterol	<i>S. kali</i> <i>S. tetrandra</i> <i>S. rigida</i> <i>S. longifolia</i>	C <sub>29</sub> H <sub>48</sub> O	412.7	[47,48]
149	B- Sitosterol	<i>S. kali</i> <i>S. inermis</i> <i>S. collina</i> <i>S. oppositifolia</i>	C <sub>29</sub> H <sub>50</sub> O	414.7	[10,17,18,45]
150	B- Sitosterol-3-O-glucoside	<i>S. kali</i>	C <sub>35</sub> H <sub>60</sub> O <sub>6</sub>	576.8	[49]
151	Campesterol	<i>S. collina</i>	C <sub>28</sub> H <sub>48</sub> O	400.7	[10,13]

**Table S8: List of fatty acids isolated from different *Salsola* species**

No	Compound Name	Source	Molecular Formula	Molecular weight g/mol	References
152	2- Monolinolenin	<i>S. oppositifolia</i>	C <sub>21</sub> H <sub>36</sub> O <sub>4</sub>	352.5	[18]
153	2,3 Dihydroxy propyl palmitate	<i>S. tetragona</i>	C <sub>19</sub> H <sub>38</sub> O <sub>4</sub>	330.5	[12]
154	8- Hexadecynoic acid (stearolic acid)	<i>S. tetrandra</i>	C <sub>18</sub> H <sub>32</sub> O <sub>2</sub>	280.4	[41]
155	9,12,13 Trihydroxy octadeca 7-enoic acid	<i>S. vermiculata</i> <i>S. tetrandra</i>	C <sub>18</sub> H <sub>34</sub> O <sub>5</sub>	330.5	[5]
156	9,12,13 Trihydroxy decosan 10,15,19-trienoic acid	<i>S. inermis</i>	C <sub>22</sub> H <sub>42</sub> O <sub>5</sub>	386	[17]
157	9,12,13 Trihydroxy octadeca-10(E),15(Z)-dienoic acid	<i>S. tetrandra</i>	C <sub>18</sub> H <sub>32</sub> O <sub>5</sub>	328.4	[30]
158	9,12,13 Trihydroxy octadeca-10(E)-dienoic acid	<i>S. tetrandra</i>	C <sub>18</sub> H <sub>34</sub> O <sub>5</sub>	330.2	[30]
159	9,12 Octadecadienoic (Z,Z), methyl ester (methyl linoleate)	<i>S. tetrandra</i> <i>S. oppositifolia</i>	C <sub>19</sub> H <sub>34</sub> O <sub>2</sub>	294.5	[18,41]
160	11- Eicosenoic	<i>S. tetrandra</i>	C <sub>20</sub> H <sub>38</sub> O <sub>2</sub>	310.5	[41]
161	Arachidic acid	<i>S. tetrandra</i> <i>S. vermiculata</i>	C <sub>20</sub> H <sub>40</sub> O <sub>2</sub>	312.5	[41]
162	Arachidonic acid	<i>S. kali</i>	C <sub>20</sub> H <sub>32</sub> O <sub>2</sub>	304.5	[47]
163	Behenic acid (docosanoic)	<i>S. tetrandra</i>	C <sub>22</sub> H <sub>44</sub> O <sub>2</sub>	340.6	[41]
164	Hexacosanoic acid	<i>S. tetrandra</i>	C <sub>26</sub> H <sub>52</sub> O <sub>2</sub>	396.7	[41]
165	Hydoxy octadecatrienoic acid	<i>S. vermiculata</i> <i>S. tetrandra</i>	C <sub>18</sub> H <sub>30</sub> O <sub>3</sub>	294.4	[5]
166	Hydoxy octadecadienoic acid	<i>S. vermiculata</i> <i>S. tetrandra</i>	C <sub>18</sub> H <sub>32</sub> O <sub>3</sub>	296.4	[5]
167	Lauric acid	<i>S. tetrandra</i>	C <sub>12</sub> H <sub>24</sub> O <sub>2</sub>	200.3	[41]
168	Lignoceric acid (tetracosanoic)	<i>S. tetrandra</i> <i>S. vermiculate</i>	C <sub>24</sub> H <sub>48</sub> O <sub>2</sub>	368.6	[41]
169	Nonadecanoic acid	<i>S. tetrandra</i>	C <sub>19</sub> H <sub>38</sub> O <sub>2</sub>	298	[41]
170	Linoleic acid	<i>S. tetrandra</i> <i>S. collina</i> <i>S. vermiculate</i> <i>S. oppositifolia</i>	C <sub>18</sub> H <sub>32</sub> O <sub>2</sub>	280.5	[5,10,18,41]
171	Methyl linolenate	<i>S. oppositifolia</i>	C <sub>19</sub> H <sub>32</sub> O <sub>2</sub>	292.5	[18]
172	Linolenic acid	<i>S. tetrandra</i> <i>S. collina</i> <i>S. vermiculate</i> <i>S. kali</i>	C <sub>18</sub> H <sub>30</sub> O <sub>2</sub>	278.4	[5,10,41,47]
173	Methyl palmitate	<i>S. oppositifolia</i> <i>S. tetrandra</i>	C <sub>17</sub> H <sub>34</sub> O <sub>2</sub>	270.5	[18,41]
174	Heptadecanoic (margaric) acid	<i>S. tetrandra</i>	C <sub>17</sub> H <sub>34</sub> O <sub>2</sub>	270.5	[41]
175	Myristic acid	<i>S. tetrandra</i>	C <sub>14</sub> H <sub>28</sub> O <sub>2</sub>	228.4	[41]
176	Methyl stearate	<i>S. oppositifolia</i>	C <sub>19</sub> H <sub>38</sub> O <sub>2</sub>	298.5	[18]

No	Compound Name	Source	Molecular Formula	Molecular weight g/mol	References
177	Octacosanoic acid	<i>S. tetrandra</i>	C <sub>28</sub> H <sub>56</sub> O <sub>2</sub>	424.7	[41]
178	Oleic acid	<i>S. kali</i> <i>S. tetrandra</i> <i>S. tetragona</i> <i>S. collina</i> <i>S. vermiculate</i>	C <sub>18</sub> H <sub>34</sub> O <sub>2</sub>	282.5	[5,10,12,41,47]
179	Octadecanoic acid, 2,3-dihydroxypropyl ester (monostearin)	<i>S. tetrandra</i>	C <sub>21</sub> H <sub>42</sub> O <sub>4</sub>	358.6	[41]
180	Palmitic acid	<i>S. tetrandra</i> <i>S. collina</i> <i>S. vermiculate</i> <i>S. oppositifolia</i> <i>S. kali</i>	C <sub>16</sub> H <sub>32</sub> O <sub>2</sub>	256.4	[5,10,18,41,47]
181	Palmitoleic acid	<i>S. tetrandra</i>	C <sub>16</sub> H <sub>30</sub> O <sub>2</sub>	254.4	[41]
182	Stearic acid	<i>S. tetrandra</i> <i>S. kali</i> <i>S. vermiculate</i>	C <sub>18</sub> H <sub>36</sub> O <sub>2</sub>	284.5	[41,47]
183	Trihydroxy octadecadienoic acid	<i>S. tetrandra</i> <i>S. vermiculate</i>	C <sub>18</sub> H <sub>32</sub> O <sub>5</sub>	328.4	[5]
184	Tetradecanoic acid, methyl ester (myristic acid, methyl ester)	<i>S. tetrandra</i>	C <sub>15</sub> H <sub>30</sub> O <sub>2</sub>	242.4	[41]
185	Tricosanoic acid	<i>S. tetrandra</i>	C <sub>23</sub> H <sub>46</sub> O <sub>2</sub>	354.6	[41]
186	<i>cis</i> -10- Heptadecanoic acid	<i>S. tetrandra</i>	C <sub>17</sub> H <sub>32</sub> O <sub>2</sub>	268	[41]

**Table S9: List of volatile constituents isolated from different *Salsola* species**

No	Compound Name	Source	Molecular Formula	Molecular weight g/mol	References
187	Carvone	<i>S. vermiculata</i>	C <sub>10</sub> H <sub>14</sub> O	150.2	[50],
188	Linalool	<i>S. vermiculata</i>	C <sub>10</sub> H <sub>18</sub> O	154.3	[50]
189	9- Hydroxylinaloyl glucoside	<i>S. tetrandra</i>	C <sub>16</sub> H <sub>28</sub> O <sub>7</sub> Na	355.2	[30]
190	Limonene	<i>S. vermiculata</i>	C <sub>10</sub> H <sub>16</sub>	136.2	[50]
191	<i>B</i> -Caryophyllene	<i>S. vermiculata</i>	C <sub>15</sub> H <sub>24</sub>	204.4	[50]
192	Vanillin	<i>S. collina</i>	C <sub>8</sub> H <sub>8</sub> O <sub>3</sub>	152.2	[1]
193	Cumin aldehyde	<i>S. vermiculata</i>	C <sub>10</sub> H <sub>12</sub> O	148.2	[50]
194	Benzyl salicylate	<i>S. cyclophylla</i>	C <sub>14</sub> H <sub>12</sub> O <sub>3</sub>	228	[51]
195	Hexa hydrofarnesyl acetone	<i>S. cyclophylla</i>	C <sub>18</sub> H <sub>36</sub> O	268	[51]

**Table S10: List of lignanas isolated from different *Salsola* species**

No	Compound Name	Source	Molecular Formula	Molecular weight g/mol	References
196	(+)-Lyoniresinol 9'-O-β-D - glucopyranoside	<i>S. komarovii</i>	C <sub>28</sub> H <sub>38</sub> O <sub>13</sub>	582.6	[26]
197	(8S,8'R,7'R)-9'-[(B-glucopyranosyl)oxy] lyoniresinol	<i>S. komarovii</i>	-	-	[26]
198	Lariciresinol-9'-O-β-D-glucopyranoside	<i>S. komarovii</i>	C <sub>38</sub> H <sub>46</sub> O <sub>17</sub>	774.8	[26]
199	Alangilignoside C	<i>S. komarovii</i>	C <sub>28</sub> H <sub>38</sub> O <sub>13</sub>	582	[26]
200	Conicaoside	<i>S. komarovii</i>	C <sub>27</sub> H <sub>36</sub> O <sub>12</sub>	552	[26]

**Table S11: List of magastigmane isolated from different *Salsola* species**

No	Compound Name	Source	Molecular Formula	Molecular weight g/mol	References
201	Icariside B <sub>2</sub>	<i>S. komarovii</i>	C <sub>19</sub> H <sub>30</sub> O <sub>8</sub>	386.4	[26]
202	Staphylionoside D	<i>S. komarovii</i>	C <sub>19</sub> H <sub>30</sub> O <sub>8</sub>	386.4	[26]
203	Blumenyl A β-D-glucopyranoside	<i>S. komarovii</i>	-	-	[26]
204	(6R,9S)-3-oxo-α-ionol β-D-glucopyranoside	<i>S. komarovii</i>	-	-	[26]
205	3-oxo-α-ionol 9-O-β-D-apiofuranosyl-(1→6)-β-D-glucopyranoside	<i>S. komarovii</i>	-	-	[26]
206	Blumenyl B β-D-glucopyranoside	<i>S. komarovii</i>	C <sub>19</sub> H <sub>32</sub> O <sub>8</sub>	388	[26]
207	Blumenol B 9-O-β-D-apiofuranosyl-(1→6)-β-D-glucopyranoside	<i>S. komarovii</i>	-	-	[26]

**Table S12: List of coumarins isolated from different *Salsola* species**

No	Compound Name	Source	Molecular Formula	Molecular weight g/mol	References
208	Daphnoretin	<i>S. baryosma</i>	C <sub>19</sub> H <sub>12</sub> O <sub>7</sub>	352.3	[21]
209	Daphnorin	<i>S. baryosma</i>	C <sub>25</sub> H <sub>22</sub> O <sub>12</sub>	514.4	[21]
210	Umbelliferone	<i>S. inermis</i>	C <sub>9</sub> H <sub>6</sub> O <sub>3</sub>	162.1	[17]
211	Scopoletin	<i>S. baryosma</i> <i>S. inermis</i>	C <sub>10</sub> H <sub>8</sub> O <sub>4</sub>	192.2	[17,21]
212	Scopoletin 7-O-B-D-glucopyranside	<i>S. laricifolia</i>	C <sub>16</sub> H <sub>18</sub> O <sub>9</sub>	354.3	[52]
213	Fraxidin	<i>S. laricifolia</i>	C <sub>11</sub> H <sub>10</sub> O <sub>5</sub>	222.2	[52]
214	Isofraxidin	<i>S. laricifolia</i>	C <sub>11</sub> H <sub>10</sub> O <sub>5</sub>	222.2	[52]
215	Fraxetin	<i>S. laricifolia</i>	C <sub>10</sub> H <sub>8</sub> O <sub>5</sub>	208.2	[52]
216	Isofraxidin 7-O-B-D-glucopyranoside (calycanthoside)	<i>S. laricifolia</i>	C <sub>17</sub> H <sub>20</sub> O <sub>10</sub>	384.3	[52]
217	Fraxidin-8-O-B-D-glucopyranoside	<i>S. laricifolia</i>	C <sub>17</sub> H <sub>20</sub> O <sub>10</sub>	384.3	[52]
218	Bergaptol	<i>S. baryosma</i>	C <sub>11</sub> H <sub>6</sub> O <sub>4</sub>	202.2	[21]
219	Bergaptol-5-O-B-D-glucopyranoside	<i>S. baryosma</i>	C <sub>17</sub> H <sub>17</sub> O <sub>9</sub>	365	[21]

**Table S13: List of cardiac glycosides isolated from different *Salsola* species**

No	Compound Name	Source	Molecular Formula	Molecular weight g/mol	References
220	3-O-B-D-Allopyranosyl-coroglaucigenin (salsotetragonin)	<i>S. tetragona</i>	C <sub>29</sub> H <sub>44</sub> O <sub>10</sub>	553.3	[12]
221	Uzargenin	<i>S. tetragona</i>	C <sub>23</sub> H <sub>34</sub> O <sub>4</sub>	374.5	[12]
222	Desglucouzarin	<i>S. tetragona</i>	C <sub>29</sub> H <sub>44</sub> O <sub>9</sub>	536.7	[12]
223	12-Dehydroxyghalaktinoside	<i>S. tetragona</i>	C <sub>29</sub> H <sub>42</sub> O <sub>10</sub>	551.3	[12]
224	Calactin	<i>S. tetragona</i>	C <sub>29</sub> H <sub>40</sub> O <sub>9</sub>	532.6	[12]

**Table S14: List of alcohols isolated from different *Salsola* species**

No	Compound Name	Source	Molecular Formula	Molecular weight g/mol	References
225	Salsolanol	<i>S. villosa</i>	C <sub>12</sub> H <sub>18</sub> O <sub>3</sub>	210	[27]
226	Phytol	<i>S. oppositifolia</i>	C <sub>20</sub> H <sub>40</sub> O	296	[18]
227	3,9 Diethyl-6-tridecanol	<i>S. tetrandra</i>	C <sub>17</sub> H <sub>36</sub> O	256	[41]
228	2,7-Dimethyl-1-octanol	<i>S. tetrandra</i>	C <sub>10</sub> H <sub>22</sub> O	158	[41]

**Table S15: List of cyanogenic, isoprenoid, and Sulphur containing compounds isolated from different *Salsola* species**

No	Compound Name	Source	Molecular Formula	Molecular weight g/mol	References
229	Taxiphllin	<i>S. tetrandra</i>	C <sub>14</sub> H <sub>17</sub> NO <sub>7</sub>	311	[30]
230	3- $\beta$ -hydroxy-5 $\alpha$ ,6 $\alpha$ -epoxy- $\beta$ -ionone-2- $\alpha$ -O- $\beta$ -D-glucopyranoside (Norisoprenoid)	<i>S. tetrandra</i>	C <sub>19</sub> H <sub>30</sub> O <sub>9</sub>	402	[30]
231	Isohexyl 2- pentyl ester, sulfurous acid	<i>S. tetrandra</i>	C <sub>11</sub> H <sub>24</sub> O <sub>3</sub> S	236	[41]

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