

Harmonized Tariff Schedule of the United States (2013) (Rev. 1)
Annotated for Statistical Reporting Purposes

INTERMEDIATE CHEMICALS FOR DYES APPENDIX

Harmonized Tariff Schedule of the United States (2013) (Rev. 1)

Annotated for Statistical Reporting Purposes

INTERMEDIATE CHEMICALS FOR DYES APPENDIX

2

This appendix enumerates those intermediate chemicals for dyes which are eligible for duty-free treatment under the provisions of general note 14 of the tariff schedule.

Product	CAS Number
Acetaldehyde, (1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)-	84-83-3
Acetamide, N-(3-amino-4-methoxyphenyl)-	6375-47-9
Acetamide, N-(3-aminophenyl)-	102-28-3
Acetamide, N-(4-aminophenyl)-	122-80-5
Acetamide, N-(3-aminophenyl)-, monohydrochloride	621-35-2
Acetamide, N-(4-aminophenyl)-N-methyl-	119-63-1
Acetamide, N-(2,5-dimethoxy phenyl)-	3467-59-2
Acetamide, N-(7-hydroxy-1-naphthalenyl)-	6470-18-4
Acetamide, N-(2-methoxy-5-methyl phenyl)-	6962-44-3
Acetamide, N-(2-Methoxy Phenyl)-	93-26-5
2-amino-diphenyl-sulfone	4273-98-7
2-(2-amino-ethoxy)-2'-chloro-diethylsulfone hydrochloride	98231-71-1
2-[(4-Amino-5-methoxy phenyl)sulfonyl]-ethanol, hydrogen sulfate ester	10079-20-6
2-Amino-1,5-naphthalene disulfonic acid, monosodium salt	19352-03-7
2-[3-Aminophenyl)sulfonyl]-ethanol, hydrogen sulfate ester	2494-88-4
Aniline, 2-chloro-4-nitro-monohydrochloride-	618-99-5
9,10-Anthracenedione	84-65-1
9,10-Anthracenedione, 1-amino-	82-45-1
9,10-Anthracenedione, 1-amino-2-bromo-4-hydroxy-	116-82-5
9,10-Anthracenedione, 1-amino-2-chloro-4-hydroxy-	2478-67-3
9,10-Anthracenedione, 1-amino-N-ethyl-N-phenyl-	81-49-2
9,10-Anthracenedione, 1,4-diamino-2,3-dihydro-	81-63-0
9,10-Anthracenedione, 1,8-dichloro-	82-43-9
9,10-Anthracenedione, 1,4-dihydroxy-	81-61-4
9,10-Anthracenedione, 1,4-dihydroxy-	81-64-1
9,10-Anthracenedione, 1,8-dihydroxy-4,5-dinitro-	81-55-0
2-Anthracenesulfonic acid, 1-amino-4-bromo-9,10-dihydro-9,10-dioxo-	116-81-4
2-Anthracenesulfonic acid, 1-amino-4-bromo-9,10-dihydro-9,10-dioxo-, monosodium salt	6258-06-6
1H-Azepine, hexahydro-	111-49-9
Benzamine, 2,6-dichloro-4-nitro-	99-30-9
Benezenesulfonamide, 2-amino-N-ethyl-N-phenyl-	81-10-7
Benzaldehyde, 2-chloro-	89-98-5
Benzaldehyde, 2,6-dichloro-	83-38-5
Benzamide, 4-amino-N-(4-aminophenyl)-	785-30-8
Benzamide, 4-amino-N-[3-[(2-hydroxyethyl)sulfonyl], phenyl]-	20241-68-3
Benzamide, N-(3-aminophenyl)-	16091-26-2
Benzamine, 3-amino-4-methoxy-N-phenyl-	120-35-4
Benzamine, 3-chloro-	108-42-9
Benzamine, 4-chloro-2,5-dimethoxy-	6358-64-1
Benzamine, 5-chloro-2-methoxy-	95-03-4
Benzamine, 5-chloro-2-methyl-	95-79-4
Benzamine, 2-chloro-5-nitro-	6283-25-6
1,4-Benzaminediamine, 2 chloro-, sulfate	6219-71-2
Benzamine, 2,5-dichloro-	95-82-9
Benzamine, 2,4-dimethoxy-	2735-04-8
Benzamine, 2,5-dimethoxy-	102-56-7
Benzamine, 2,4-dinitro-	97-02-9
Benzamine, 4-ethoxy-2-nitro-	616-86-4
Benzamine, 4-fluoro-3-nitro-	364-76-1
Benzamine, 2-methoxy-5-nitro	99-59-2
Benzamine, 4-(phenylazo)-	60-09-3
Benzamine, 4-(phenylazo)-, monohydrochloride	3457-98-5
Benzeneamine, 2-chloro-4-nitro-	121-87-9
Benzeneamine, 4-chloro-2-(trifluoromethyl)-	445-03-4
Benzeneamine, 2-methoxy-	90-04-0
Benzeneamine, 4-methoxy-	104-94-9
Benzeneamine, 2-methoxy-4-nitro-	97-52-9
Benzeneamine, N-methyl-	100-61-8
Benzeneamine, 4-(6-methyl-2-benzothiazolyl)-	92-36-4
Benzeneamine, 3-nitro-	99-09-2
Benzeneamine, 2-(trifluoromethyl)-	88-17-5
Benzeneamine, 4-ethoxy-	156-43-4
Benzene, 1-chloro-2,4-dinitro-	97-00-7
1,2-Benzenediamine, 4-ethoxy-, sulfate (1:1)	85137-09-3
1,3-Benzenediamine, 4-methyl-	95-80-7

Harmonized Tariff Schedule of the United States (2013) (Rev. 1)

Annotated for Statistical Reporting Purposes

INTERMEDIATE CHEMICALS FOR DYES APPENDIX

3

Product	CAS Number
Benzene, 1,2-dimethyl-4-nitro-	99-51-4
1,4-Benzenedisulfonic acid, 2-amino-	98-44-2
1,4-Benzenedisulfonic acid, 2-amino-, sodium salt	76684-33-8
Benzeethanol, 4-hydroxy-	501-94-0
Benzenesulfonamide, 2-amino-N-cyclohexyl-N-methyl-	70693-59-3
Benzenesulfonamide, 3-(4,5-Dihydro-3-methyl-5-oxo-1H-pyrazol-1-yl)-	89-29-2
Benzenesulfonic acid, 4-(acetylamino)-2-amino-	88-64-2
Benzenesulfonic acid, 2-amino-	88-21-1
Benzenesulfonic acid, 3-amino-	121-47-1
Benzenesulfonic acid, 5-amino-2-[(4-aminophenyl)amino]	119-70-0
Benzenesulfonic acid, 3-amino-4-chloro-	98-36-2
Benzenesulfonic acid, 4-amino-2,5-dichloro-	88-50-6
Benzenesulfonic acid, 4-amino-2,5-dichloro-, monosodium salt	41295-98-1
Benzenesulfonic acid, 3-amino-4-hydroxy-	98-37-3
Benzenesulfonic acid, 2-amino, 5-methoxy-	13244-33-2
Benzenesulfonic acid, 2-amino, 4-methoxy-, monosodium salt	19433-86-4
Benzenesulfonic acid, 3-amino-, monosodium salt	1126-34-7
Benzenesulfonic acid, 5-amino-2-[2-(4-nitro-2-sulfophenyl)ethenyl]-	119-72-2
Benzenesulfonic acid, 5-amino-2-[2-(4-nitro-2-sulfophenyl)ethenyl]-, disodium salt	6634-82-8
Benzenesulfonic acid, 2-amino-5-[(4-sulfophenyl)azo]-	101-50-8
Benzenesulfonic acid, 2-amino-5-[(4-sulfophenyl)azo]-, disodium salt	2706-28-7
Benzenesulfonic acid, 4-chloro-3-(4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-1-yl)-	88-76-6
Benzenesulfonic acid, 2,4-diamino-	88-63-1
Benzenesulfonic acid, 2,5-diamino-, monopotassium salt	88-45-9
Benzenesulfonic acid, 2,5-diamino-, monopotassium salt	77847-12-2
Benzenesulfonic acid, 2,4-diamino-, monosodium salt	3177-22-8
Benzenesulfonic acid, 2,5-dichloro-4-(4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-1-yl)-	84-57-1
Benzenesulfonic acid, 4-(4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-1-yl)-	89-36-1
Benzenesulfonic acid, 4-[(1,3-dioxybutyl)amino]-5-methoxy-2-methyl-	62592-39-6
Benzenesulfonic acid, 4-[(1,3-dioxybutyl)amino]-5-methoxy-2-methyl-, ammonium salt	72705-22-7
Benzenesulfonic acid, 4-[(1,3-dioxybutyl)amino]-5-methoxy-2-methyl-, monosodium salt	133167-77-8
Benzenesulfonic acid, 2,2'-(1,2-ethenediyl)bis[5-amino-], disodium salt	7336-20-1
Benzenesulfonic acid, 2,2'-(1,2-ethenediyl)bis[5-amino-], sodium salt	25394-13-2
Benzenesulfonic acid, 2,2'-(1,2-ethenediyl)bis[5-nitro-, disodium salt]	3709-43-1
Benzenesulfonic acid, 2,2'-(1,2-ethenediyl)bis[5-nitro-, sodium salt]	15883-59-7
Benzenesulfonic acid, 2-formyl-, sodium salt	1008-72-6
Benzenesulfonic acid, 4-hydrazino-	98-71-5
Benzenesulfonyl chloride, 4-methyl-	98-59-9
Benzenesulfonyl chloride, 2-nitro-	1694-92-4
Benzoic acid, 2-amino-5-nitro-	616-79-5
Benzoic acid, 2-hydroxy-3-methyl-	83-40-9
Benzonitrile, 2-amino-5-nitro-	17420-30-3
4H-1-Benzopyran-4-one, 2-(2,4-dihydroxyphenyl)-2,5,6-trihydroxy-	480-16-0
2-Benzothiazolamine, 5,6-dichloro-	24072-75-1
2-Benzothiazolamine, 6-methoxy-	1747-60-0
2-Benzothiazolamine, 6-nitro-	6285-57-0
2-Benzothiazolamine, 4-chloro-	19952-47-7
Benzothiazole	95-16-9
7-Benzothiazolesulfonic acid, 2-(4-aminophenyl)-6-methyl-	130-17-6
7-Benzothiazolesulfonic acid, 2-(4-aminophenyl)-6-methyl-, monolithium salt	74578-07-7
7-Benzothiazolesulfonic acid, 2-(4-aminophenyl)-6-methyl-, monopotassium salt	74578-06-6
7-Benzothiazolesulfonic acid, 2-(4-aminophenyl)-6-methyl-, monosodium salt	74578-05-5
2(3H)-Benzoxazolone, 6-[(2-hydroxyethyl)sulfonyl]-	5031-74-3
4-(beta Aminoethylamino)-3-(2-hydroxyethyl)sulfonyl]-nitrobenzene	105652-75-3
1,1'-Binaphthalene-8,8'-dicarboxylic acid	29878-91-9
[1,1'-Biphenyl]-4,4'-diamine, 3,3'-dimethoxy-	119-90-4
[1,1'-Biphenyl]-4,4'-diamine, 3,3'-dimethoxy-, dihydrochloride	20325-40-0
[1,1'-Biphenyl]-4,4'-diamine, 3,3'-dimethyl-	119-93-7
[1,1'-Biphenyl]-4,4'-diamine, 3,3'-dimethyl-, dihydrochloride	612-82-8
Butanamide, N-(2,3-dihydro-2-oxo-1H-benzimidazol-5-yl)-3-oxo-	26576-46-5
Butanedioic acid, acetyl-, dimethyl ester	10420-33-4
Butanedioic acid, sulfo-,1,4-bis(2-ethylhexyl)ester, sodium salt	577-11-7
9H-Carbazole	86-74-8
Cobalt, [29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-,(sp-4-1)	3317-67-7
Cyanamide	420-04-2
Cyanamide, (1,4,5,6-tetrahydro-4,6-dioxo-2-pyrimidinyl)-	55067-10-2
2,5-Cyclohexadiene-1,4-dione, 2,3,5,6-tetrachloro-	118-75-2
1,4-Cyclohexanedicarboxylic acid, 2,5-dioxo-, dimethyl ester	6289-46-9
2,4-Diaminobenzenesulfonic acid	83-63-1

Harmonized Tariff Schedule of the United States (2013) (Rev. 1)

Annotated for Statistical Reporting Purposes

INTERMEDIATE CHEMICALS FOR DYES APPENDIX

4

Product	CAS Number
Disulfide, bis(2-nitrophenyl)-	1155-00-6
Ethanedioic acid	144-62-7
Ethanol, 2-[(4-amino-2,5-dimethoxy phenyl)sulfonyl]-, hydrogen sulfate ester	26672-24-2
Ethanol, 2-[(4-amino-5-methoxy-2-methylphenyl), sulfonyl]-, hydrogen sulfate ester	21635-69-8
Ethanol, 2-[(3-Amino phenyl)sulfonyl]-	5246-57-1
Ethanol, 2-[(4-aminophenyl)sulfonyl]-, hydrogen sulfate ester	2494-89-5
Ethanol, 2-[(3-nitrophenyl)sulfonyl]-	41687-30-3
1H-Indole, 2,3-dihydro-1,3,3-trimethyl-2-methylene-	118-12-7
Methanone, (3,4-dihydroxyphenyl)(2,4,6-trihydroxyphenyl)-	519-34-6
2-Naphthalenesulfonic acid, 8-amino-, monosodium salt	6322-37-8
2-Naphthalenecarboxylic acid, 3-hydroxy-	92-70-6
2-Naphthalenecarboxylic acid, 6-hydroxy-	16712-64-4
1,3-Naphthalenedisulfonic acid, 7-amino-	86-65-7
1,5-Naphthalenedisulfonic acid, 2-amino-	117-62-4
1,5-Naphthalenedisulfonic acid, 3-amino-	131-27-1
1,3-Naphthalenedisulfonic acid, 4-amino-5-hydroxy-	82-47-3
2,7-Naphthalenedisulfonic acid, 4-amino-5-hydroxy-	90-20-0
2,7 Naphthalenedisulfonic acid, 4-amino-5-hydroxy-, disodium salt	3963-80-2
1,3-Naphthalenedisulfonic acid, 4-amino-5-hydroxy-, monopotassium salt	57248-90-5
2,7-Naphthalenedisulfonic acid, 4-amino-5-hydroxy-, monosodium salt	5460-09-3
1,3-Naphthalenedisulfonic acid, 4-amino-5-hydroxy-, sodium salt	76550-42-0
2,7-Naphthalenedisulfonic acid, 3-amino-5-hydroxy-, sodium salt	53891-22-8
1,3-naphthalenedisulfonic acid, 7-amino-, monopotassium salt	842-15-9
1,5-Naphthalenedisulfonic acid, 2-amino-, monosodium salt	19532-03-7
1,5-Naphthalenedisulfonic acid, 3-amino-, sodium salt	52085-24-2
1,3-Naphthalenedisulfonic acid, 6-(4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-1-yl)-	7277-87-4
2,7-Naphthalenedisulfonic acid, 4,5-dihydroxy-	148-25-4
2,7-Naphthalenedisulfonic acid, 4,5-dihydroxy-, disodium salt	129-96-4
2,7-Naphthalenedisulfonic acid, 4,5-dihydroxy-, monosodium salt	3888-44-6
1,3-Naphthalenedisulfonic acid, 7-hydroxy-	118-32-1
2,7-Naphthalenedisulfonic acid, 3-hydroxy-	148-75-4
1,3-Naphthalenedisulfonic acid, 7-hydroxy-, dipotassium salt	842-18-2
1,3-Naphthalenedisulfonic acid, 7-hydroxy-, disodium salt	842-19-3
2,7-Naphthalenedisulfonic acid, 3-hydroxy-, disodium salt	135-51-3
2-Naphthalenedisulfonic acid, 6-hydroxy-, monosodium salt	135-76-2
2-Naphthalenesulfonic acid, 6-amino-7-hydroxy-	6399-72-0
2-Naphthalenesulfonic acid, 7-(acetylamino)-4-hydroxy-	6334-97-0
1-Naphthalenesulfonic acid, 2-amino-	81-16-3
1-Naphthalenesulfonic acid, 4-amino-	84-86-6
1-Naphthalenesulfonic acid, 5-amino-	84-89-9
1-Naphthalenesulfonic acid, 8-amino-	82-75-7
2-Naphthalenesulfonic acid, 5-amino-	119-79-9
2-Naphthalenesulfonic acid, 6-amino-	93-00-5
2-Naphthalenesulfonic acid, 8-amino-	119-28-8
2-Naphthalenesulfonic acid, 6-amino-4-hydroxy-	90-51-7
2-Naphthalenesulfonic acid, 7-amino-4-hydroxy-	87-02-5
1-Naphthalenesulfonic acid, 2-amino-, mono ammonium salt	68540-41-0
2-Naphthalenesulfonic acid, 6-amino-, monoammonium salt	70682-62-1
1-Naphthalenesulfonic acid, 4-amino-, monosodium salt	130-13-2
2-Naphthalenesulfonic acid, 6-amino-, monosodium salt	58306-86-8
2-Naphthalenesulfonic acid, 7,7'-(carbonyldiimino)bis[4-hydroxy-	134-47-4
2-Naphthalenesulfonic acid, 7,7'-(carbonyldiimino)bis[4-hydroxy-, disodium salt	20324-87-2
2-Naphthalenesulfonic acid, 7,7'-(carbonyldiimino)bis[4-hydroxy-, monosodium salt	71550-28-2
1-Naphthalenesulfonic acid, 4-diazo-3,4-dihydro-7-nitro-3-oxo-	63589-25-3
1-Naphthalenesulfonic acid, 4-hydroxy-	84-87-7
1-Naphthalenesulfonic acid, 5-hydroxy-	117-59-9
1-Naphthalenesulfonic acid, 8-hydroxy-	117-22-6
2-Naphthalenesulfonic acid, 6-hydroxy-, monopotassium salt	833-66-9
1-Naphthalenesulfonic acid, 4-hydroxy-, monosodium salt	6099-57-6
2-Naphthalenesulfonic acid, 4-hydroxy-7-(phenylamino)-	119-40-4
2-Naphthalenesulfonic acid, 4-hydroxy-7-(phenylamino)-, monosodium salt	68213-89-8
1,3-Naphthalenesulfonic acid, 7-hydroxy-, potassium salt	13846-08-7
1-Naphthalenesulfonic acid, 5-hydroxy-, sodium salt	79873-34-0
1-Naphthalenesulfonic acid, 8-(phenylamino)-	82-76-8
1-Naphthalenesulfonic acid, 8-(phenylamino)-, monoammonium salt	28836-03-5
1,3,6-Naphthalenetrisulfonic acid, 7-amino-	118-03-6
1,3,6-Naphthalenetrisulfonic acid, 8-amino-	117-42-0

Harmonized Tariff Schedule of the United States (2013) (Rev. 1)

Annotated for Statistical Reporting Purposes

INTERMEDIATE CHEMICALS FOR DYES APPENDIX

5

Product	CAS Number
1,3,6 Naphthalenetrisulfonic acid, 7-amino-, diammonium salt	70714-69-1
1,3,6 Naphthalenetrisulfonic acid, 7-amino-, disodium salt	67602-72-6
1,3,6 Naphthalenetrisulfonic acid, 7-amino-, sodium salt	41016-61-9
2-Naphthalenol	135-19-3
1-Naphthalenesulfonic acid, 4-hydroxy-, monopotassium salt	37860-62-1
1-Naphthalenesulfonic acid, 8-(phenylamino)-, monosodium salt	1445-19-8
1H-Naphth[2,3-f]isoindole-1,3,5,10(2H)tetrone, 4,11-diamino-	128-81-4
Naphth[1,2-d][1,2,3]oxadiazole-5-sulphonic acid, 7-nitro-	84-91-3
1-Naphthylamine	134-27-7
Nickel [29H,31H-phthalocyaninato(2-)-N29, N30, N31, N32]-, (SP-4-1)-	14055-02-8
Phenol, 3-amino-	591-27-5
Phenol, 4-amino-	123-30-8
Phenol, 2-amino-3-bromo-5-nitro-	17601-96-6
Phenol, 2-amino-4-chloro-	95-85-2
Phenol, 2-amino-4,6-dinitro-, monosodium salt	831-52-7
Phenol, 5-Amino-2-methyl-	2835-95-2
Phenol, 2-amino-4-nitro-	99-57-0
Phenol, 2-amino-5-nitro-	121-88-0
Phenol, 2-amino-4-nitro, monosodium salt	61702-43-0
Phenol, 4-chloro-2-(phenylmethyl)-	120-32-1
Phenol, 3-(diethylamino)-	91-68-9
Phenol, 3-(ethylamino)-4-methyl-	120-37-6
Phenol, 4,4'-sulfonylbis-	80-09-1
2-phenyl-indol-5-sulfonic acid, NA salt	119205-39-9
2-[(phenylmethylene)hydrazino]-4-sulfobenzoic acid	77734-52-2
2-[(phenylmethylene)hydrazino]-4-sulfobenzoic acid, monosodium salt	131887-77-9
Propanenitrile, 3,3'-(phenylamino)bis-	1555-66-4
Propionamide, N-(3-aminophenyl)-	22987-10-6
1H-Pyrazol-5-amine, 3-methyl-1-phenyl-	1131-18-6
1H-Pyrazole-3-carboxylic acid, 4,5-dihydro-3-methyl-5-oxo-1-phenyl-, ethyl ester	89-33-8
1H-Pyrazole-3-carboxylic acid, 4,5-dihydro-5-oxo-1-(4-sulfonyl)-	118-47-8
3H-Pyrazol-3-one, 2-chlorophenyl)-2,4-dihydro-5-methyl-	14580-22-4
3H-Pyrazol-3-one, 2,4-dihydro-2-[-4-[(2-hydroxyethyl)sulfonyl], phenyl]-5-methyl-	21951-34-8
3H-Pyrazol-3-one, 2,4-dihydro-5-methyl-2-(4-methylphenyl)-	86-92-0
3H-Pyrazol-3-one, 2,4-dihydro-5-methyl-2-phenyl-	89-25-8
3-Pyridinecarboxamide, 1-ethyl-1,2-dihydro-6-hydroxy-4-methyl-2-oxo-	29097-12-9
2,4,6(1H,3H,5H)-Pyrimidinetrione	67-52-7
2,4,6(1H,3H,5H)-Pyrimidinetrione, monosodium salt	4390-16-3
8-Quinololinol	148-24-3
Spiro[isobenzofuran-1(3H),9'-[9H]-xanthen]-3-one, 3',6'-bis(ethylamino)-2',7'-dimethyl-	41382-37-0
2-Thiazolamine	96-50-4
Thiourea	62-56-6
1,3,5-Triazine, 2,4,6,(1H,3H,5H)-trione, 1,3,5-trichloro-	87-90-1
1,3,5,-Trioxane, 2,4,6-trimethyl-	123-63-7
Urea, (3-Amino Phenyl)-	25711-72-2
Urea, (3-aminophenyl)-, monohydrochloride	59690-88-9

INTERMEDIATE CHEMICALS FOR DYES APPENDIX