



XAA500 **CAS: 130209-82-4** **HR: 3**
XALATAN

mf: $C_{26}H_{40}O_5$ mw: 432.66

SYNS: 5-HEPTENOIC ACID, 7-(3,5-DIHYDROXY-2-(3-HYDROXY-5-PHENYLPENTYL)CYCLOPENTYL)-,1-METHYLETHYL ESTER, (1R-(1- α (Z),2- β (R*),3- α ,5- α))- □ LATANOPROST □ PHXA 41 □ XA 41

TOXICITY DATA with REFERENCE:

ocu-man TDLo:33 μ L/kg/25D-I:EYE AJOPAA 124,683,1997

ocu-man TDLo:99 μ L/kg/20W-I:SKN AJOPAA 124,544,1997

ocu-wmn TDLo:4 nL/kg/5W-I:EYE AJOPAA 127,91,1999

orl-rat LD50:>50 μ g/kg YAKUD5 42,195,2000

ivn-rat LD50:>2 mg/kg YAKUD5 42,195,2000

orl-mus LD50:>50 μ g/kg YAKUD5 42,195,2000

ivn-mus LD50:>2 mg/kg YAKUD5 42,195,2000

ivn-dog LD50:>680 μ g/kg YAKUD5 42,195,2000

SAFETY PROFILE: A poison by ingestion and intravenous route. Human systemic effects. When heated to decomposition it emits acrid smoke and irritating vapors.

XAH000 **HR: 3**
XAMOTEROLFUMARATE

mf: $C_{16}H_{25}N_3O_5 \cdot 1/2C_4H_4O_4$ mw: 397.36

SYNS: CORWIN □ (±)-N-(2-(HYDROXY-3-(4-HYDROXY-PHENOXY)PROPYLAMINO)ETHYL)MORPHOLINE-4-CARBOXAMIDE FUMARATE □ ICI 118587 □ 4-MORPHOLINE-CARBOXAMIDE, N-(2-((2-HYDROXY-3-(4-HYDROXYPHENOXY)PROPYL)AMINO)ETHYL)-, (E)-2-BUTENEDIOATE (2:1) (salt)

TOXICITY DATA with REFERENCE:

orl-rat TDLo:7 g/kg (male 10W pre):REP YACHDS 16,1157,88

orl-rbt TDLo:650 mg/kg (female 6-18D post):TER YACHDS 16,1157,88

ivn-rat LD50:172 mg/kg YACHDS 16,1157,88

ivn-mus LD50:240 mg/kg YACHDS 16,1157,88

SAFETY PROFILE: Poison by intravenous route. An experimental teratogen. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x .

XAJ000 **CAS: 28981-97-7** **HR: 3**
XANAX

mf: $C_{17}H_{13}ClN_4$ mw: 308.79

PROP: Crystals from ethyl acetate. Mp: 228–228.5°. Sol in alc; insol in water.

SYNS: ALPRAZOLAM □ 8-CHLORO-1-METHYL-6-PHENYL-4H-s-TRIAZOLO(4,3-a)(1,4)BENZODIAZEPINE □ D 65MT □ TAFIL □ TUS-1 □ U 31889

TOXICITY DATA with REFERENCE:

orl-man TDLo:160 μ g/kg/4D-I AJPSAO 142,859,85

orl-wmn TDLo:20 μ g/kg/1D-I AJPSAO 141,1127,84

orl-rat LD50:1220 mg/kg YACHDS 8,4695,80

ipr-rat LD50:355 mg/kg YACHDS 8,4695,80

orl-mus LD50:812 mg/kg YHTPAD 21,538,86

ipr-mus LD50:380 mg/kg YACHDS 8,4687,80

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion. An experimental teratogen. Experimental reproductive effects. *Caution:* Abuse leads to habituation or addiction. When heated to decomposition it emits toxic fumes of Cl^- and NO_x . See also DIAZEPAM.

XAK000 **CAS: 86-40-8** **HR: 3**
XANTHACRIDINE

mf: $C_{14}H_{14}N_3 \cdot Cl$ mw: 259.76

SYNS: ACRIFLAVINE □ ACRIFLAVINE NEUTRAL □ ACRIFLAVON □ AF □ AVLON □ BURNOL □ CHROMO-FLAVINE □ C.I. 46000 □ 2,8-DIAMINO-10-METHYLACRIDINIUM CHLORIDE □ 3,6-DIAMINO-10-METHYLACRIDINIUM CHLORIDE □ EUFLAVINE □ FLAVIN □ FLAVINE □ FLAVOSAN □ GONACRINE □ GONOCRIN □ NEUTRAL ACRIFLAVINE □ NEUTROFLAVINE □ PANFLAVIN □ TRYPAFLAVIN

TOXICITY DATA with REFERENCE:

mma-esc 10 mg/L MUREAV 140,13,84

sln-dmg-orl 10 pph MUREAV 121,199,83

dni-hmn:hla 10 μ mol/L RAREAE 37,334,69

ivn-hmn LDLo:1500 μ g/kg JPETAB 38,145,30

ipr-mus LDLo:11 mg/kg TXAPA9 23,388,72

scu-mus LD50:14 mg/kg BJEP5A 28,1,47

ivn-mus LD50:40 mg/kg BJEP5A 28,1,47

ivn-dog LDLo:25 mg/kg JPETAB 38,145,30

ivn-cat LDLo:7353 μ g/kg LANCAO 196,838,19

ivn-rbt LDLo:25 mg/kg JPETAB 38,145,30

ipr-gpg LDLo:250 mg/kg HBAMAK 4,1292,35

scu-gpg LDLo:250 mg/kg HBAMAK 4,1292,35

ivn-gpg LDLo:40 mg/kg HBAMAK 4,1292,35

scu-frg LDLo:800 mg/kg ZGEMAZ 12,195,21

ipr-mam LDLo:65 mg/kg JPETAB 80,217,44

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: A human poison by intravenous route. Poison experimentally by intraperitoneal, intravenous, and subcutaneous routes. Human mutation data reported. When heated to decomposition it emits very toxic fumes of NO_x and Cl^- .

XAK800 **CAS: 11138-66-2** **HR: D**
XANTHAN GUM

PROP: Produced by fermentation of a carbohydrate with *Xanthomonas campestris*. Cream-colored powder. Sol in hot or cold water.

SAFETY PROFILE: When heated to decomposition it emits acrid smoke and irritating fumes.

XAT000 CAS: 92-83-1 HR: 2**XANTHENE**mf: C₁₃H₁₀O mw: 182.23**PROP:** Leaflets from EtOH. Mp: 100.5°, bp: 315°. Sltly sol in water; sol in alc.**SYNS:** 10H-9-OXAANTHRACENE □ 9H-XANTHENE**TOXICITY DATA with REFERENCE:**

scu-mus LD50:690 mg/kg ARZNAD 8,107,58

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by subcutaneous route. When heated to decomposition it emits acrid smoke and irritating fumes.**XBA000 CAS: 37971-99-6 HR: 3****1,1'-(9H-XANTHENE-2,7-DIYL)BIS(2-(DIMETHYLAMINO))ETHANONE DIHYDROCHLORIDE SESQUIHYDRATE**mf: C₂₁H₂₄N₂O₃•2ClH•3/2H₂O mw: 452.39**SYN:** RMI 11513 DA**TOXICITY DATA with REFERENCE:**

orl-mus LD50:1410 mg/kg ALACBI 12,77,79

scu-mus LD50:304 mg/kg ALACBI 12,77,79

SAFETY PROFILE: Poison by subcutaneous route. Moderately toxic by ingestion. When heated to decomposition it emits very toxic fumes of NO_x and HCl.**XBA100 CAS: 38178-99-3 HR: 3**
9H-XANTHENE, 1,2,4,5,7,8-HEXACHLORO-mf: C₁₃H₄Cl₆O mw: 388.87**SYN:** 1,2,4,5,7,8-HEXACHLORO-9H-XANTHENE**TOXICITY DATA with REFERENCE:**

orl-gpg LD50:>12,500 µg/kg JTEHD6 20,241,87

SAFETY PROFILE: A poison by ingestion. When heated to decomposition it emits toxic vapors of Cl⁻.**XBJ000 CAS: 90-46-0 HR: 2****XANTHEN-9-OL**mf: C₁₃H₁₀O₂ mw: 198.23**PROP:** Needles from EtOH (aq); colorless liquid. D: 0.880 @ 20°/4°, mp: -25.2°, bp: 144.4°. Insol in water; misc in abs alc, ether.**SYNS:** 9-HYDROXYXANTHENE □ XANTHANOL □ XANTHYDROL**TOXICITY DATA with REFERENCE:**

mmo-sat 100 µg/plate MUREAV 150,141,85

mma-sat 100 µg/plate MUREAV 150,141,85

orl-rat LDLo:500 mg/kg NCNSA6 5,26,53

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Moderately toxic by ingestion. Mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes. See also ALCOHOLS.**XBS000 CAS: 90-47-1 HR: 3****9-XANTHENONE**mf: C₁₃H₈O₂ mw: 196.21**PROP:** Needles in alc. Mp: 173–174°, bp: 349–350° @ 730 mm. Sltly sol in hot water, ether, ligroin; sol in chloroform, alc, benzene.**TOXICITY DATA with REFERENCE:**

ivn-mus LD50:180 mg/kg CSLNX* NX#01611

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Poison by intravenous route. When heated to decomposition it emits acrid smoke and irritating fumes. See also KETONES.**XCA000 CAS: 69-89-6 HR: 2****XANTHINE**mf: C₅H₄N₄O₂ mw: 152.13**PROP:** Crystals. Mp: @ <350°. Yellow or white powder, scales, or plates. Decomp on heating without melting, partial subl. Sol in water and mineral acids; less sol in alc; very sol in NH₄OH and NaOH solns.**SYNS:** 3,7-DIHYDRO-1H-PURINE-2,6-DIONE □ 2,6-DIOXO-PURINE □ ISOXANTHINE □ PSEUDOXANTHINE □ PURINE-2,6-DIOL □ 9H-PURINE-2,6-DIOL □ 2,6(1,3)-PURINEDION □ PURINE-2,6-(1H,3H)-DIONE □ USAF CB-17 □ XAN □ XANTHIC OXIDE**TOXICITY DATA with REFERENCE:**

scu-rat TDLo:3600 mg/kg/18W-I:NEO JNCIAM 24,109,60

ipr-mus LD50:500 mg/kg NTIS** AD277-689

CONSENSUS REPORTS: Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.**SAFETY PROFILE:** Moderately toxic by intraperitoneal route. Questionable carcinogen with experimental neoplastigenic data. When heated to decomposition it emits toxic fumes of NO_x.**XCJ000 CAS: 53-46-3 HR: 3****XANTHINE BROMIDE**mf: C₂₁H₂₆NO₃•Br mw: 420.39**SYNS:** ASABAIN □ AVAGAL □ BANTHIN □ BANTHINE □ BANTHINE BROMIDE □ β-DIETHYLAMINOETHYL XANTHENE-9-CARBOXYLATE METHOBROMIDE □ β-DIETHYLAMINOETHYL 9-XANTHENECARBOXYLATE METHOBROMIDE □ DIETHYL(2-HYDROXYETHYL)METHYLAMMONIUMBROMIDE XANTHENE-9-CARBOXYLATE □ DOLADENE □ ETHANAMINIUM, N,N-DIETHYL-N-METHYL-2-((9H-XANTHEN-9-YLCARBONYL)OXY)-, BROMIDE (9CI) □ FRENOGASTRICO □ GASTRON □ GASTROSEDAN □ MANTHELIN □ METANTYL □ METAXAN □ METHANIDE □ METHANTHELIN BROMIDE □ METHANTHELINUM BROMIDE □ METHANTHINE BROMIDE □ METHELINA □ MTB 51 □ RESOBANTIN □ SC 2910 □ ULCINE □ ULCUDEXTER □ VAGAMIN □ VAGANTIN □ XANTELIN □ XANTHENE-9-CARBOXYLIC ACID, ESTER with DIETHYL(2-HYDROXYETHYL)METHYLAMMONIUM BROMIDE**TOXICITY DATA with REFERENCE:**

orl-rat LD50:1660 mg/kg NIIRDN 6,357,82

orl-mus LD50:460 mg/kg NIIRDN 6,357,82

ipr-mus LD50:46 mg/kg JPETAB 106,141,52

scu-mus LDLo:600 mg/kg ARZNAD 8,107,58

ivn-mus LD50:4300 µg/kg AIPTAK 105,221,56

ivn-dog LDLo:23 mg/kg PSEBAA 78,576,51

SAFETY PROFILE: Poison by intraperitoneal and intravenous routes. Moderately toxic by ingestion and subcutaneous routes. Unspecified human reproductive effects. When heated to decomposition it emits very toxic fumes of NO_x, NH₃, and Br⁻.

XCS000 CAS: 437-74-1 HR: 2**XANTHINOL NICOTINATE**mf: $C_{13}H_{21}N_5O_4 \cdot C_6H_5NO_2$ mw: 434.51**PROP:** Crystals. Mp: 180°. Freely sol in water.**SYNS:** ANGIOMIN □ COMPLAMEX □ COMPLAMIN □ 7-(3-(N-(2-HYDROXYETHYL)AMINO)-2-HYDROXYPROPYL)THIO-PHYLLINE NICOTINATE □ 7-(2-HYDROXY-3-((2-HYDROXY-ETHYL)METHYLAMINO)PROPYL)THEOPHYLLINE, compound with NICOTINIC ACID □ SADAMIN □ SK 331 A □ XANTHINOL NIACINATE □ XAVIN □ XN**TOXICITY DATA with REFERENCE:**

orl-rat LD50:14,130 mg/kg OYYAA2 9,601,75

ipr-rat LD50:3028 mg/kg OYYAA2 9,601,75

scu-rat LD50:5255 mg/kg OYYAA2 9,601,75

ivn-rat LD50:690 mg/kg OYYAA2 9,601,75

orl-mus LD50:17,350 mg/kg OYYAA2 9,601,75

scu-mus LD50:4260 mg/kg OYYAA2 9,601,75

ivn-rbt LD50:500 mg/kg OYYAA2 9,601,75

SAFETY PROFILE: Moderately toxic by intraperitoneal and intravenous routes. Mildly toxic by ingestion. An experimental teratogen. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x . Used as a peripheral vasodilator. See also NICOTINIC ACID.**XCS400 HR: 3
XANTHIUM CANADENSE, KERNAL EXTRACT****TOXICITY DATA with REFERENCE:**

ipr-mus LDLo:250 mg/kg JAPMA8 39,202,50

ipr-pig LDLo:175 mg/kg JAPMA8 39,202,50

ipr-gpg LDLo:150 mg/kg JAPMA8 39,202,50

ipr-ckn LDLo:375 mg/kg JAPMA8 39,202,50

SAFETY PROFILE: Poison by intraperitoneal route.**XCS680 CAS: 38965-69-4 HR: 3
XANTHOCILLIN Y 1**mf: $C_{18}H_{12}N_2O_3$ mw: 304.32**PROP:** Clusters of yellow needles from alc; yellow rhombs from ethyl acetate. Chars at about 710°. Sol in alc, ether acetate, and dioxane; freely sol in alkaline aq solns; practically insol in water, pet ether, benzene, and chloroform.**SYN:** 4-(4-(4-HYDROXYPHENYL)-2,3-DIISOCYANO-1,3-BUTADIENYL)-1,2-BENZENEDIOL**TOXICITY DATA with REFERENCE:**

orl-mus LD50:100 mg/kg 85GDA2 6,277,81

ipr-mus LD50:15 mg/kg 85GDA2 6,277,81

ivn-mus LD50:14 mg/kg 85GDA2 6,277,81

SAFETY PROFILE: Poison by ingestion, intravenous, and intraperitoneal routes. When heated to decomposition it emits toxic fumes of NO_x .**XCS700 CAS: 38965-70-7 HR: 3
XANTHOCILLIN Y 2**mf: $C_{18}H_{12}N_2O_4$ mw: 320.32**SYN:** 4,4'-(2,3-DIISOCYANO-1,3-BUTADIENE-1,4-DIYL)BIS-1,2-BENZENEDIOL**TOXICITY DATA with REFERENCE:**

orl-mus LD50:100 mg/kg 85GDA2 6,277,81

ipr-mus LD50:20,500 µg/kg 85GDA2 6,277,81

ivn-mus LD50:18 mg/kg 85GDA2 6,277,81

SAFETY PROFILE: Poison by ingestion, intravenous, and intraperitoneal routes. When heated to decomposition it emits toxic fumes of NO_x .**XCS800 HR: 2
XANTHOSOMA (various species)****PROP:** Variegated ornamentals with elongated leaves and thick tubers. They are cultivated in the southern United States, Hawaii, Guam, and the West Indies.**SYNS:** BLUE 'APE (HAWAII) □ BLUE TARO (HAWAII) □ CARAIBE (HAITI) □ MALANGA (CUBA) □ YAUTIA (PUERTO RICO)**SAFETY PROFILE:** The leaves contain poisonous crystals of calcium oxalate. Chewing these plant parts results in burning pain in the lips, mouth, and throat, possibly followed by inflammation and blistering. Systemic effects are usually not seen because of the insolubility of calcium oxalate. See also OXALATES.**XDJ000 CAS: 298-81-7 HR: 3
XANTHOTOXIN**mf: $C_{12}H_8O_4$ mw: 216.20**PROP:** Crystals from EtOH (aq). Mp: 148°.**SYNS:** AMMOIDIN □ 6-HYDROXY-7-METHOXY-5-BENZO-FURANACRYLIC ACID Δ-LACTONE □ MELADININ □ MELADININE □ MELOXINE □ METHOXA-DOME □ METHOXSALEN □ 8-METHOXY-(FURANO-3',2':6,7-COUMARIN) □ 9-METHOXY-7H-FURO(3,2-g)BENZOPYRAN-7-ONE □ 8-METHOXY-2',3',6,7-FUROCUMARIN □ 8-METHOXY-4',5',6,7-FUROCUMARIN □ 8-METHOXYPSORALEN □ 9-METHOXY-PSORALEN □ 8-MOP □ 8-MP □ NCI-C55903 □ OXSORALEN □ OXYPSORALEN □ PRORALONE-MOP**TOXICITY DATA with REFERENCE:**

dnd-esc 20 µmol/L CBINA8 21,103,78

cyt-hmn:lym 100 µmol/L PLMEAA 42,333,81

orl-rat TDLo:18,025 mg/kg/2Y-C:EO NTPTR* NTP-TR-359,89

orl-rat LD50:791 mg/kg DCTODJ 2,309,79

ipr-rat LD50:158 mg/kg DCTODJ 2,309,79

orl-mus LD50:423 mg/kg DCTODJ 2,309,79

ipr-mus LD50:310 mg/kg QJPPAL 21,499,48

scu-mus LD50:860 mg/kg DRUGAY 6,837,82

CONSENSUS REPORTS: NTP 10th Report on Carcinogens. IARC Cancer Review: Group 1 IMEMDT 7,243,87; Human Inadequate Evidence IMEMDT 24,101,80; Animal Inadequate Evidence IMEMDT 24,101,80. Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.**SAFETY PROFILE:** Confirmed carcinogen. Poison by intraperitoneal route. Moderately toxic by ingestion and subcutaneous routes. Human mutation data reported. When heated to decomposition it emits acrid smoke and irritating fumes. A drug used to treat skin diseases.**XDJ025 CAS: 91441-48-4 HR: D
XANTRAZOLE**mf: $C_{21}H_{25}N_5O_4$ mw: 411.51**SYNS:** ANTHRA(1,9-CD)PYRAZOL-6(2H)-ONE, 7,10-DIHYDROXY-2-(2-((2-HYDROXYETHYL)AMINO)ETHYL)-5-((2-(METHYLAMINO)ETHYL)AMINO)- □ CI-937 □ DUP 942 □ NCS 349174 □ PD-113309 □ PIROXANTRONE**TOXICITY DATA with REFERENCE:**

dni-mus-leu 330 nmol/L BCPA6 34,3499,1985

uns-mus-leu 2 µmol/L BCPA6 34,3499,1985

SAFETY PROFILE: Mutation data reported. When heated to decomposition it emits toxic vapors of NO_x.**XDJ050 CAS: 81403-68-1 HR: 3
XATRAL**mf: C₁₉H₂₇N₅O₄•ClH mw: 425.97**SYNS:** ALFUZOSIN HYDROCHLORIDE □ 2-FURANCARBOXAMIDE, N-(3-((4-AMINO-6,7-DIMETHOXY-2-QUINAZOLINYL)METHYLAMINO)PROPYL)TETRAHYDRO-,**TOXICITY DATA with REFERENCE:**

ivn-rat LD50:146 mg/kg YAKUD5 42,2569,2000

ivn-mus LD50:235 mg/kg YAKUD5 42,2569,2000

ivn-dog LD50:>200 mg/kg YAKUD5 42,2569,2000

SAFETY PROFILE: A poison by intravenous route. When heated to decomposition it emits toxic vapors of NO_x, HCl, and Cl⁻.**XDJ100 HR: D
3-(2-XENOLYL)-1,2-EPOXYPROPANE****SAFETY PROFILE:** When heated to decomposition it emits acrid smoke and irritating fumes.**XDS000 CAS: 7440-63-3 HR: 1
XENON****DOT:** UN 2036/UN 2591

af: Xe aw: 131.29

PROP: Colorless, odorless, tasteless, monatomic gaseous element. Reacts with fluorine and very powerful fluorinating agents. D (gas): 5.8878 g/L, d (liq): 3.52 @ -109°, mp: -112°, bp: -107°. Sol in H₂O.**SYNS:** XENON (UN 0236) (DOT) □ XENON, refrigerated liquid (cryogenic liquids) (UN 2591) (DOT)**CONSENSUS REPORTS:** Reported in EPA TSCA Inventory.**DOT CLASSIFICATION:** 2.2; Label: Nonflammable Gas**SAFETY PROFILE:** An inert gas that acts as a simple asphyxiant. For a discussion of toxicity effects, see ARGON. A common air contaminant.**XEA000 HR: 3
XENON(II) FLUORIDE METHANESULFONATE**mf: CH₃FO₃SXe mw: 245.36**SAFETY PROFILE:** Explodes spontaneously at 0°C. Upon decomposition it emits very toxic fumes of SO_x and F⁻. See also FLUORIDES.**XEJ000 CAS: 25710-89-8 HR: 3
XENON(II) FLUORIDE TRIFLUOROACETATE**mf: CF₄O₂Xe mw: 251.40**SAFETY PROFILE:** Explodes when exposed to thermal or mechanical shock. When heated to decomposition it emits toxic fumes of F⁻. See also FLUORIDES.**XEJ100 CAS: 39274-39-0 HR: 3
XENON(II) FLUORIDE
TRIFLUOROMETHANESULFONATE**mf: CF₄O₃SXe mw: 299.35**PROP:** Yellow solid; decomp to Xe, CF₄ and SO₃.**SAFETY PROFILE:** Explodes violently at room temperature. Upon decomposition it emits toxic fumes of SO_x and F⁻. See also FLUORIDES.**XEJ300 CAS: 13693-09-9 HR: 3
XENON HEXAFLUORIDE**mf: F₆Xe mw: 245.28**PROP:** Colorless solid, or crystals, greenish yellow vapor. Mp: 49.48°; bp: 75.57°.**SAFETY PROFILE:** Violent reaction with water forms the explosive xenon trioxide. Violent reaction with hydrogen; water + fluorides (e.g., sodium fluoride; potassium fluoride; rubidium fluoride; cesium fluoride; nitrosyl fluoride). When heated to decomposition it emits toxic fumes of F⁻. See also FLUORIDES and XENON TRIOXIDE.**XES000 CAS: 25523-79-9 HR: 3
XENON(II) PERCHLORATE**mf: Cl₂O₈Xe mw: 330.206**PROP:** Yellow solid.**SAFETY PROFILE:** Can explode violently. When heated to decomposition it emits toxic fumes of Cl⁻. See also PERCHLORATES.**XFA000 CAS: 13709-61-0 HR: 3
XENON TETRAFLUORIDE**mf: F₄Xe mw: 207.3**PROP:** Colorless monoclinic crystals. D: 4.55. Triple point 117.10°. Sol in anhydrous HF.**SAFETY PROFILE:** Reacts with water to form a very shock-sensitive explosive. May explode on contact with acetone; aluminum; pentacarbonyliron; styrene; polyethylene; lubricants; paper; sawdust; wool or other combustible materials. Vigorous reaction with ethanol, potassium iodate, potassium permanganate. When heated to decomposition it emits toxic fumes of F⁻. See also FLUORIDES and XENON TRIOXIDE.**XFJ000 HR: 3
XENON(II) TRIFLUOROACETATE**mf: C₂F₆O₄Xe mw: 333.31**SAFETY PROFILE:** Shock-sensitive explosive. When heated to decomposition it emits toxic fumes of F⁻. See also FLUORIDES.**XFS000 CAS: 13776-58-4 HR: 3
XENON TRIOXIDE**mf: O₃Xe mw: 179.30**PROP:** Colorless, deliquescent, hygroscopic solid. D: 4.55. Stable in slight acid aq soln. In neutral or basic soln slowly decomp to Xe and O₂. In strong base gives Na₄XeO₆•xH₂O. Usually obtained in soln. Sol in H₂O.**SAFETY PROFILE:** Powerful explosive. Formed by the reaction of xenon tetrafluoride or xenon hexafluoride with water. Used as an epoxidation reagent.**XFS300 CAS: 132-29-6 HR: 3**

o-XENYL DIPHENYL PHOSPHATEmf: C₂₄H₁₉O₄P mw: 402.40

SYNS: 2-BIPHENYLYL DIPHENYL PHOSPHATE □ DIPHENYL o-BIPHENYLYL PHOSPHATE □ DOW 5 □ DOW PLASTICIZER 5 □ o-PHENYLPHENYL BISPHENYL PHOSPHATE □ o-PHENYLPHENYL DIPHENYL PHOSPHATE □ PHOSPHORIC ACID, (1,1'-BIPHENYL)-2-YL DIPHENYL ESTER □ PHOSPHORIC ACID, 2-BIPHENYLYL DIPHENYL ESTER

TOXICITY DATA with REFERENCE:

orl-rat LD50:>15,800 mg/kg TXAPA9 41,291,77
 ivn-mus LDLo:50 mg/kg CBCCT* 5,139,53
 skn-rbt LD50:>7900 mg/kg TXAPA9 41,291,77
 orl-ckn LD50:>10 g/kg TXAPA9 41,291,77

SAFETY PROFILE: A poison by intravenous route. Moderately toxic by skin contact. Low toxicity by ingestion. When heated to decomposition it emits toxic vapors of PO_x.

XFS600**CAS: 1394-04-3****HR: 3****XEROSIN****SYNS:** ANTIBIOTIC APM □ APM**TOXICITY DATA with REFERENCE:**

ipr-mus LD50:400 mg/kg 85GDA2 4(2),290,80
 scu-mus LD50:800 mg/kg 85GDA2 4(2),290,80
 ivn-mus LD50:200 mg/kg 85GDA2 4(2),290,80

SAFETY PROFILE: Poison by intravenous and intraperitoneal routes. Moderately toxic by subcutaneous route.

XGA000**HR: 3****XF-408****SYN:** DOW CORNING SILICONE FLUID and FLUOROXYDROCARBON**TOXICITY DATA with REFERENCE:**

orl-rat LD50:2840 mg/kg MRLR** No. 256,54
 ihl-rat LCLo:2100 mg/m³ XAWPA2 CWL 2-10,58
 ivn-rat LD50:230 mg/kg MRLR** No. 256,54
 ihl-dog LCLo:2100 mg/m³ XAWPA2 CWL 2-10,58
 ivn-rbt LD50:130 mg/kg MRLR** No. 256,54

SAFETY PROFILE: Poison by intravenous route. Moderately toxic by ingestion and inhalation. See also SILICONES.

XGA500**HR: 3****XIBENOL HYDROCHLORIDE**mf: C₁₅H₂₅NO₂•ClH mw: 287.83**SYN:** (±)-1-((1,1-DIMETHYLETHYL)AMINO)-3-(2,3-DIMETHYLPHENOXY)-2-PROPANOL HYDROCHLORIDE**TOXICITY DATA with REFERENCE:**

orl-rat LD50:575 mg/kg YACHDS 12(Suppl 6),969,84
 scu-rat LD50:219 mg/kg YACHDS 12(Suppl 6),969,84
 ivn-rat LD50:24 mg/kg YACHDS 12(Suppl 6),969,84
 orl-mus LD50:325 mg/kg YACHDS 12(Suppl 6),969,84
 scu-mus LD50:284 mg/kg YACHDS 12(Suppl 6),969,84
 ivn-mus LD50:28 mg/kg YACHDS 12(Suppl 6),969,84
 orl-dog LD50:405 mg/kg YACHDS 12(Suppl 6),969,84
 ivn-dog LD50:9200 µg/kg YACHDS 12(Suppl 6),969,84
 orl-rbt LD50:425 mg/kg YACHDS 12(Suppl 6),969,84

SAFETY PROFILE: Poison by ingestion, subcutaneous, and intravenous routes. When heated to decomposition it emits toxic fumes of NO_x and HCl.

XGA725**CAS: 50528-97-7****HR: 3****XILOBAM**mf: C₁₄H₁₉N₃O mw: 245.36**PROP:** A solid. Mp: 119–120°.**SYNS:** N-(2,6-DIMETHYLPHENYL)-N'-(1-METHYL-2-PYRROLIDINYLIDENE)UREA □ MCN-3113 □ 1-(1-METHYL-2-PYRROLIDINYLIDENE)-3-(2,6-XYLYL)UREA**TOXICITY DATA with REFERENCE:**

orl-rat LD50:830 mg/kg AIPTAK 233,326,78
 ipr-rat LD50:128 mg/kg AIPTAK 233,326,78
 orl-mus LD50:320 mg/kg JMCMA 21,1044,78
 ipr-mus LD50:110 mg/kg AIPTAK 233,326,78

SAFETY PROFILE: Poison by ingestion and intraperitoneal routes. When heated to decomposition it emits toxic fumes of NO_x.

XGS000**CAS: 1330-20-7****HR: 3****XYLENE****DOT:** UN 1307mf: C₈H₁₀ mw: 106.18**PROP:** A clear liquid. Bp: 138.5°, flash p: 100°F (TOC), d: 0.864 @ 20°/4°, vap press: 6.72 mm @ 21°.

Composition: as nonaromatics 0.07%, toluene 14%, ethyl benzene 19.27%, p-xylene 7.84%, m-xylene 65.01%, o-xylene 7.63%, C9 and aromatics 0.04% (TXAPA9 33,543,75).

SYNS: DIMETHYLBENZENE □ KSYLEN (POLISH) □ METHYL TOLUENE □ NCI-C55232 □ RCRA WASTE NUMBER U239 □ VIOLET 3 □ XILOLI (ITALIAN) □ XYLENEN (DUTCH) □ XYLOL (DOT) □ XYLOLE (GERMAN)

TOXICITY DATA with REFERENCE:

eye-hmn 200 ppm JIHTAB 25,282,43
 skn-rbt 100% MOD AMIHAB 14,387,56
 skn-rbt 500 mg/24H MOD 28ZPAK -,24,72
 eye-rbt 87 mg MLD AMIHAB 14,387,56
 eye-rbt 5 mg/24H SEV 28ZPAK -,24,72
 cyt-smc 1 mmol/tube HEREAY 33,457,47
 orl-hmn LDLo:50 mg/kg YAKUD5 22,883,80
 ihl-man LCLo:10,000 ppm/6H BMJOAE 3,442,70
 ihl-hmn TCLo:200 ppm:NOSE,EYE,PUL JIHTAB 25,282,43
 orl-rat LD50:4300 mg/kg AMIHAB 14,387,56
 ihl-rat LC50:5000 ppm/4H NPIR* 1,123,74
 ipr-rat LD50:2459 mg/kg ENVRAL 40,411,86
 orl-uns LD50:4300 mg/kg GTPZAB 32(10),25,88
 ihl-uns LC50:30 g/m³ GTPZAB 32(10),25,88

CONSENSUS REPORTS: Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program. Community Right-To-Know List.

OSHA PEL: TWA 100 ppm; STEL 150 ppm

ACGIH TLV: TWA 100 ppm; STEL 150 ppm; BEI: methyl hippuric acids in urine at end of shift 1.5 g/g creatinine; Not Classifiable as a Human Carcinogen

DFG MAK: (all isomers) 100 ppm (440 mg/m³); BAT: 150 µg/dL in blood at end of shift

NIOSH REL: (Xylene) TWA 100 ppm; CL 200 ppm/10M

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: Moderately toxic by intraperitoneal and subcutaneous routes. Mildly toxic by ingestion and inhalation. An experimental teratogen. Human systemic effects by inhalation: olfactory changes,

conjunctiva irritation, and pulmonary changes. Experimental reproductive effects. Mutation data reported. A human eye irritant. An experimental skin and severe eye irritant. Some temporary corneal effects are noted, as well as some conjunctival irritation by instillation (adding drops to the eyes one drop at a time). Irritation can start @ 200 ppm. A very dangerous fire hazard when exposed to heat or flame; can react with oxidizing materials. To fight fire, use foam, CO₂, dry chemical. When heated to decomposition it emits acrid smoke and irritating fumes. See also other xylene entries.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Hydrocarbons, Aromatic, 1501.

XHA000 CAS: 108-38-3 HR: 3
***m*-XYLENE**

mf: C₈H₁₀ mw: 106.18

PROP: Colorless, mobile liquid. Mp: -47.9°, bp: 139°, lel: 1.1%, uel: 7.0%, flash p: 77°F, d: 0.864 @ 20°/4°, vap press: 10 mm @ 28.3°, vap d: 3.66, autoign temp: 986°F. Insol in water; misc with alc, ether, and some org solvs. IDLH 900 ppm.

SYNS: *m*-DIMETHYLBENZENE □ 1,3-DIMETHYLBENZENE □ 1,3-XYLENE □ *m*-XYLOL (DOT)

TOXICITY DATA with REFERENCE:

skn-rbt 10 µg/24H open SEV AIHAAP 23,95,62
ihl-man TCLo:424 mg/m³/6H/6D:CNS TOLED5 1000(Sp. Iss. I),74,8
ihl-man TCLo:870 mg/m³/4H-I:CNS ATSDG 7,412,84
orl-rat LD50:5 g/kg YAKUD5 22,883,80
ihl-rat LCLo:8000 ppm/4H AIHAAP 23,95,62
ihl-mus LCLo:2010 ppm/24H JPBAA7 46,95,38
ipr-mus LD50:1739 mg/kg ARTODN 58,106,85
skn-rbt LD50:14,100 mg/kg AIHAAP 23,95,62

CONSENSUS REPORTS: Community Right-To-Know List. Reported in EPA TSCA Inventory.

OSHA PEL: TWA 100 ppm; STEL 150 ppm

ACGIH TLV: TWA 100 ppm; STEL 150 ppm; BEI: methyl hippuric acids in urine at end of shift 1.5 g/g creatinine; Not Classifiable as a Human Carcinogen

NIOSH REL: (Xylene) TWA 100 ppm; CL 200 ppm/10M

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: Moderately toxic by intraperitoneal route. Mildly toxic by ingestion, skin contact, and inhalation. An experimental teratogen. Human systemic effects by inhalation: motor activity changes, ataxia, and irritability. Experimental reproductive effects. A severe skin irritant. A common air contaminant. A very dangerous fire hazard when exposed to heat or flame; can react with oxidizing materials. Explosive in the form of vapor when exposed to heat or flame. To fight fire, use foam, CO₂, dry chemical. Emitted from modern building materials (CENEAR 69,22,91). When heated to decomposition it emits acrid smoke and irritating fumes. See also other xylene entries.

XHJ000 CAS: 95-47-6 HR: 3
***o*-XYLENE**

mf: C₈H₁₀ mw: 106.18

PROP: Colorless, mobile liquid. D: 0.880 @ 20°/4°, mp: -25.2°, bp: 144.4°, flash p: 62.6°F, lel: 1.0%, uel: 6.0%. Insol in water; misc in abs alc, ether. IDLH 900 ppm.

SYNS: *o*-DIMETHYLBENZENE □ 1,2-DIMETHYLBENZENE □ *o*-METHYLTOLUENE □ 1,2-XYLENE □ *o*-XYLOL

TOXICITY DATA with REFERENCE:

ihl-hmn LCLo:6125 ppm/12H YAKUD5 22,883,80
orl-rat LDLo:5 g/kg YAKUD5 22,883,80
ihl-rat LCLo:6125 ppm/12H JPBAA7 46,95,38
ihl-mus LCLo:30 g/m³ AEPPAE 143,223,29
ipr-mus LD50:1364 mg/kg ARTODN 58,106,85

CONSENSUS REPORTS: Community Right-To-Know List. Reported in EPA TSCA Inventory.

OSHA PEL: TWA 100 ppm; STEL 150 ppm

ACGIH TLV: TWA 100 ppm; STEL 150 ppm; BEI: methyl hippuric acids in urine at end of shift 1.5 g/g creatinine; Not Classifiable as a Human Carcinogen

NIOSH REL: (Xylene) TWA 100 ppm; CL 200 ppm/10M

DOT CLASSIFICATION: 3; Label: Flammable Liquid

SAFETY PROFILE: Moderately toxic by intraperitoneal route. Mildly toxic by ingestion and inhalation. An experimental teratogen. A common air contaminant. A very dangerous fire hazard when exposed to heat or flame. Explosive in the form of vapor when exposed to heat or flame. To fight fire, use foam, CO₂, dry chemical. Incompatible with oxidizing materials. When heated to decomposition it emits acrid smoke and irritating fumes. Emitted from modern building materials (CENEAR 69,22,91). See also other xylene entries.

XHS000 CAS: 106-42-3 HR: 3
***p*-XYLENE**

mf: C₈H₁₀ mw: 106.18

PROP: Clear plates, prisms, or liquid. Bp: 138.3°, lel: 1.1%, uel: 7.0%, flash p: 77°F (CC), mp: 13-14°, d: 0.8611 @ 20°/4°, vap press: 10 mm @ 27.3°, vap d: 3.66, autoign temp: 986°F. Insol in water; sol in alc, ether, org solvs. IDLH 900 ppm.

SYNS: CHROMAR □ *p*-DIMETHYLBENZENE □ 1,4-DIMETHYLBENZENE □ *p*-METHYLTOLUENE □ SCINTILLAR □ 1,4-XYLENE □ *p*-XYLOL (DOT)

TOXICITY DATA with REFERENCE:

orl-rat LD50:5 g/kg YAKUD5 22,883,80
ihl-rat LC50:4550 ppm/4H 36YFAG -,302,77
ipr-rat LD50:3810 mg/kg 36YFAG -,302,77
ihl-mus LCLo:15 g/m³ AEPPAE 143,223,29
ipr-mus LD50:2110 mg/kg ARTODN 58,106,85

CONSENSUS REPORTS: Community Right-To-Know List. Reported in EPA TSCA Inventory.

OSHA PEL: TWA 100 ppm; STEL 150 ppm

ACGIH TLV: TWA 100 ppm; STEL 150 ppm; BEI: methyl hippuric acids in urine at end of shift 1.5 g/g creatinine; Not Classifiable as a Human Carcinogen

NIOSH REL: (Xylene) TWA 100 ppm; CL 200 ppm/10M

SAFETY PROFILE: Moderately toxic by intraperitoneal route. Mildly toxic by ingestion and inhalation. An experimental teratogen. Experimental reproductive effects. May be narcotic in high concentrations. Chronic toxicity not established, but is less

toxic than benzene. A very dangerous fire hazard when exposed to heat or flame; can react with oxidizing materials. Explosive in the form of vapor when exposed to heat or flame. To fight fire, use foam, CO₂, dry chemical. Potentially explosive reaction with acetic acid + air, 1,3-dichloro-5,5-dimethyl-2,4-imidazolidindione, nitric acid + pressure. When heated to decomposition it emits acrid smoke and irritating fumes. See also other xylene entries.

XHS800 CAS: 1477-55-0 HR: 2
m-XYLENE- α,α' -DIAMINE

mf: C₈H₁₂N₂ mw: 136.22

PROP: A liquid. Bp: 245–248°.

SYNS: 1,3-BIS-AMINOMETHYLBENZEN (CZECH) □ MXDA □ m-PHENYLENEBIS(METHYLAMINE) □ m-XYLYLENDIAMIN (CZECH)

TOXICITY DATA with REFERENCE:

skn-rbt 200 mg/24H SEV 28ZPAK -,64,72

eye-rbt 50 µg/24H SEV 28ZPAK -,64,72

orl-rat LD50:930 mg/kg 85INA8 5,638,86

ihl-rat LC50:700 ppm/1H DTLVS* 4,440,80

skn-rbt LD50:2000 mg/kg DTLVS* 4,440,80

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

OSHA PEL: TWA CL 0.1 mg/m³ (skin)

ACGIH TLV: TWA CL 0.1 mg/m³ (skin)

SAFETY PROFILE: Moderately toxic by skin contact and ingestion. Mildly toxic by inhalation. A severe skin and eye irritant. When heated to decomposition it emits toxic fumes of NO_x. Used to make polyamide fibers and resins and as a curing agent.

XIJ000 CAS: 3634-83-1 HR: 3
m-XYLENE DIISOCYANATE

DOT: UN 2207/UN 3080

mf: C₁₀H₈N₂O₂ mw: 188.20

SYNS: BENZENE, 1,3-BIS(ISOYANATOMETHYL)-(9CI) □ 1,3-BIS(ISOYANATOMETHYL)BENZENE □ 1,3-BIS-(ISOKYANATOMETHYL)BENZEN □ m-PHENYLENEDIMETHYLENE ISOCYANATE □ TAKENATE □ TAKENATE 500 □ m-XDI □ m-XYLIDENE DIISOCYANATE □ m-XYLYLENDIISOKYANAT □ m-XYLYLENE DIISOCYANATE □ XYLYLENDIISOKYANAT (CZECH)

TOXICITY DATA with REFERENCE:

skn-rbt 2 mg/24H SEV 85JCAE -,933,86

eye-rbt 5 mg/24H SEV 85JCAE -,933,86

orl-rat LD50:5350 mg/kg 85JCAE -,933,86

orl-mus LD50:840 mg/kg TAKHAA 39,202,80

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

NIOSH REL: (Diisocyanates) TWA 0.005 ppm; CL 0.02 ppm/10M

DOT CLASSIFICATION: 6.1; Label: KEEP AWAY FROM FOOD (UN 2207); DOT Class: 6.1; Label: Poison (UN 2206); DOT Class: 6.1; Label: Poison, Flammable Liquid (UN 3080); DOT Class: 3; Label: Flammable Liquid, Poison (UN 2478)

SAFETY PROFILE: Moderately toxic by ingestion. A severe skin and eye irritant. A sensitizer. A flammable liquid. When heated to decomposition it emits very toxic fumes of NO_x. See also ISOCYANATES.

XJA000 CAS: 25321-41-9 HR: 2
XYLENESULFONIC ACID

mf: C₈H₁₀O₃S mw: 186.24

PROP: Corrosive liquid. Brown color when heated. Solid at room temp with slight odor.

TOXICITY DATA with REFERENCE:

ipr-mus LD50:500 mg/kg 14CYAT 2,184,63

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Moderately toxic by intraperitoneal route. When heated to decomposition it emits toxic fumes of SO_x.

XJJ000 CAS: 88-61-9 HR: 2
2,4-XYLENESULFONIC ACID

mf: C₈H₁₀O₃S mw: 186.24

PROP: Plates or prisms from H₂O. Mp: 61–62°.

SYNS: 2,4-DIMETHYLBENZENESULFONIC ACID □ m-XYLENESULFONIC ACID □ m-XYLENE-4-SULFONIC ACID

TOXICITY DATA with REFERENCE:

ipr-mus LDLo:500 mg/kg CBCCT* 6,375,54

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DOT CLASSIFICATION: 8; Label: Corrosive

SAFETY PROFILE: Moderately toxic by intraperitoneal route. A corrosive. When heated to decomposition it emits toxic fumes of SO_x.

XJJ005 CAS: 21894-02-0 HR: 2
3,5-XYLENESULFONIC ACID, 4-HYDROXY-

mf: C₈H₁₀O₄S mw: 202.24

SYNS: BENZENESULFONIC ACID, 3,5-DIMETHYL-4-HYDROXY- □ 2,6-DIMETHYLPHENOL-4-SULFONIC ACID □ DX80-2

TOXICITY DATA with REFERENCE:

skn-rbt 500 mg MLD NTIS** OTS0540081

orl-rat LD50:2650 mg/kg NTIS** OTS0540081

skn-rbt LD :>2 g/kg NTIS** OTS0540081

SAFETY PROFILE: Moderately toxic by ingestion and skin contact. A mild skin irritant. When heated to decomposition it emits toxic vapors of SO_x.

XJJ010 CAS: 1300-72-7 HR: 3
XYLENESULFONIC ACID, SODIUM SALT

mf: C₈H₁₀O₃S•Na mw: 209.23

PROP: White crystalline powder. D: 1.23, mp: 27°, bp: 157°. Sol in water: >=100 mg/mL @ 20°.

SYNS: BENZENESULFONIC ACID, DIMETHYL-, SODIUM SALT □ CONCO SXS □ CYCLOPHIL SXS30 □ ELTESOL SX 30 □ HYDROTROPE □ NAXONATE □ NAXONATE G □ NCI-C55403 □ SODIUM DIMETHYLBENZENESULFONATE □ SODIUM XYLENESULFONATE □ STEPANATE X □ SURCO SXS □ ULTRAWET 40SX

CONSENSUS REPORTS: Reported in EPA TSCA Inventory. EPA FIFRA 1988 pesticide subject to registration or re-registration.

SAFETY PROFILE: Probably a poison. When heated to decomposition it emits toxic vapors of NaO and SO_x.

XKA000 CAS: 1300-71-6 HR: 3
XYLENOL

DOT: UN 2261mf: C₈H₁₀O mw: 122.18**PROP:** The six isomers of xlenol are sltly sol in water; very sol in alc, chloroform, ether, benzene; sol in NaOH soln.**SYNS:** DIMETHYLPHENOL □ PHENOL, DIMETHYL- □ STERICOL □ XILENOLI (ITALIAN) □ XYLENOLEN (DUTCH) □ XYLENOLS (DOT)**TOXICITY DATA with REFERENCE:**

orl-man LDLo:5 g/kg PGMJAO 62,411,86

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**DOT CLASSIFICATION:** 6.1; Label: Poison**SAFETY PROFILE:** A poison. When heated to decomposition it emits acrid smoke and irritating fumes. See also other xlenol entries.**XKJ000 CAS: 526-75-0 HR: 3
2,3-XYLENOL**mf: C₈H₁₀O mw: 122.18**PROP:** Needles or crystals from EtOH (aq). Mp: 75°, bp: 218°. Sol in water, alc.**SYNS:** 2,3-DIMETHYLPHENOL □ PHENOL, 2,3-DIMETHYL- □ o-XYLENOL**TOXICITY DATA with REFERENCE:**

ivn-mus LD50:56 mg/kg CSLNX* NX#00158

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Poison by intravenous route. When heated to decomposition it emits acrid smoke and irritating fumes. See also other xlenol entries.**XKJ500 CAS: 105-67-9 HR: 3
2,4-XYLENOL**mf: C₈H₁₀O mw: 122.18**PROP:** Needles from EtOH (aq) or C₆H₆. Mp: 26°, bp: 97–98° @ 14 mm. Sol in water and alc.**SYNS:** 2,4-DIMETHYLPHENOL □ 4,6-DIMETHYLPHENOL □ 1-HYDROXY-2,4-DIMETHYLBENZENE □ RCRA WASTE NUMBER U101 □ m-XYLENOL**TOXICITY DATA with REFERENCE:**

skn-mus TDLo:16 g/kg/39W-I:CAR CNREA8 19,413,59

orl-rat LD50:3200 mg/kg GTPZAB 18(2),58,74

skn-rat LD50:1040 mg/kg GTPZAB 18(2),58,74

orl-mus LD50:809 mg/kg GTPZAB 18(2),58,74

skn-mus LD50:1040 mg/kg 85GMAT -,119,82

ipr-mus LD50:183 mg/kg JMCMAR 868,75

ivn-mus LD50:100 mg/kg JMCMAR 23,1350,80

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Poison by intravenous and intraperitoneal routes. Moderately toxic by ingestion and skin contact. Questionable carcinogen with experimental carcinogenic data. When heated to decomposition it emits acrid smoke and irritating fumes. See also other xlenol entries.**XKS000 CAS: 95-87-4 HR: 3
2,5-XYLENOL**mf: C₈H₁₀O mw: 122.18**PROP:** Crystals from EtOH. Mp: 74.5°, bp: 211.5–213.5°.**SYNS:** 2,5-DIMETHYLPHENOL □ 3,6-DIMETHYLPHENOL □ 2,5-DMP □ 6-METHYL-m-CRESOL □ p-XYLENOL □ 1,2,5-XYLENOL**TOXICITY DATA with REFERENCE:**

skn-mus TDLo:4000 mg/kg/20W-I:ETA CNREA8 19,413,59

orl-rat LD50:444 mg/kg HYSAAV 33(9),329,68

unr-rat LD50:730 mg/kg JPETAB 53,227,35

orl-mus LD50:383 mg/kg HYSAAV 33(9),329,68

orl-rbt LD50:938 mg/kg HYSAAV 33(9),329,68

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Poison by ingestion. Moderately toxic by an unspecified route. When heated to decomposition it emits acrid smoke and irritating fumes. Questionable carcinogen with experimental tumorigenic data. Used in disinfectants, solvents, pharmaceuticals, plasticizers, and wetting agents. See also other xlenol entries.**XLA000 CAS: 576-26-1 HR: 3
2,6-XYLENOL**mf: C₈H₁₀O mw: 122.18**PROP:** Colorless leaflets or needles. Mp: 48–49°, bp: 203°. Sol in hot water and alc.**SYNS:** 2,6-DIMETHYLPHENOL □ 2,6-DMP**TOXICITY DATA with REFERENCE:**

eye-rbt 100 mg IHFCAY 6,1,67

orl-rat LD50:296 mg/kg HYSAAV 33(9),329,68

orl-mus LD50:450 mg/kg GTPZAB 20(4),43,76

skn-mus LD50:920 mg/kg GTPZAB 18,58,74

ipr-mus LD50:150 mg/kg NTIS** AD691-490

ivn-mus LD50:80 mg/kg JMCMAR 23,1350,80

orl-rbt LD50:700 mg/kg HYSAAV 33(9),329,68

skn-rbt LD50:1000 mg/kg IHFCAY 6,1,67

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Poison by ingestion, intravenous, and intraperitoneal routes. Questionable carcinogen with experimental tumorigenic data. Moderately toxic by skin contact. An eye irritant. When heated to decomposition it emits acrid smoke and irritating fumes. Used in disinfectants, solvents, pharmaceuticals, and as an antioxidant in gas, oils, and elastomers. See also other xlenol entries.**XLJ000 CAS: 95-65-8 HR: 3
3,4-XYLENOL**mf: C₈H₁₀O mw: 122.18**PROP:** Crystals from water; prisms from ligroin. D: 1.076 @ 17.5°, mp: 62.5°, bp: 225°C. Very sltly sol in water; sol in alc, ether.**SYNS:** 3,4-DIMETHYLPHENOL □ 4,5-DIMETHYLPHENOL □ 3,4-DMP □ 1,3,4-XYLENOL**TOXICITY DATA with REFERENCE:**

unr-rat LD50:727 mg/kg GTPPAF 8,145,72

orl-mus LD50:400 mg/kg HYSAAV 33(9),329,68

orl-rbt LD50:800 mg/kg HYSAAV 33(9),329,68

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Questionable carcinogen with experimental tumorigenic data. Poison by ingestion. Moderately toxic by unspecified route. When heated to decomposition it emits acrid smoke and irritating fumes. Used in production of sulfur dyes, disinfectants, pharmaceuticals, solvents, and as an antioxidant. See also other xylenol entries.

XLS000 CAS: 108-68-9 HR: 3
3,5-XYLENOL

mf: $C_8H_{10}O$ mw: 122.18

PROP: White crystals from water. Mp: 64°, bp: 219.5°, d: 1.0362, vap press: 1 mm @ 62°. Sltly sol in water; sol in alc.

SYNS: 3,5-DIMETHYLPHENOL □ 3,5-DMP □ 1,3,5-XYLENOL

TOXICITY DATA with REFERENCE:

eye-rbt 726 µg SEV AJOPAA 29,1363,46

orl-rat LD50:608 mg/kg GTPPAF 8,145,72

orl-mus LD50:477 mg/kg HYSAAV 33(9),329,68

ipr-mus LD50:156 mg/kg JMCMA 18,868,75

orl-rbt LD50:1313 mg/kg HYSAAV 33(9),329,68

CONSENSUS REPORTS: Reported in EPA TSCA Inventory. EPA Genetic Toxicology Program.

SAFETY PROFILE: Poison by intraperitoneal route. Moderately toxic by ingestion. A severe eye irritant. Questionable carcinogen with experimental tumorigenic data. When heated to decomposition it emits acrid smoke and irritating fumes. See also other xylenol entries.

XLS100 CAS: 25155-23-1 HR: 1
XYLENOL, PHOSPHATE (3:1)

mf: $C_{24}H_{27}O_4P$ mw: 410.48

PROP: Pale yellow liquid.

SYNS: COALITE NTP □ DIMETHYLPHENOL PHOSPHATE (3:1) □ PHENOL, DIMETHYL-, PHOSPHATE (3:1) (9CI) □ PHOSFLEX 179 □ TRIXYLENYL PHOSPHATE □ TRIXYLYL PHOSPHATE □ XYLYL PHOSPHATE

TOXICITY DATA with REFERENCE:

orl-mus LD50:11,800 mg/kg 85GMAT -,118,82

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Low toxicity by ingestion. When heated to decomposition it emits toxic vapors of PO_x .

XLS300 CAS: 57021-61-1 HR: 1
2,6-XYLIDIDE of 2-PYRIDONE-3-CARBOXYLIC ACID

mf: $C_{14}H_{14}NO_2$ mw: 228.29

SYNS: 1,2-DIHYDROXY-2-OXO-N-(2,6-XYLYL)-3-PYRIDINE-CARBOXAMIDE □ ISONIXIN □ ISONIXINE □ NIXYN □ NIXYN HERMES □ 3-PYRIDINECARBOXAMIDE, 1,2-DIHYDRO-2-OXO-N-(2,6-XYLYL)- □ 3-PYRIDINECARBOXAMIDE, N-(2,6-DIMETHYLPHENYL)-1,2-DIHYDRO-2-OXO-(9CI) □ 2,6-XYLIDIDE of 2-PYRIDONE-3-CARBOXYLSAURE

TOXICITY DATA with REFERENCE:

orl-mus LD50:7000 mg/kg ARZNAD 27,1457,77

SAFETY PROFILE: Mildly toxic by ingestion. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x .

XMA000 CAS: 1300-73-8 HR: 3

XYLIDINE

mf: $C_8H_{11}N$ mw: 121.20

PROP: Usually liquid (except for o-4-xylylidine). Bp: 213–226°, flash p: 206° (CC), d: 0.97–0.99, vap d: 4.17. Sltly sol in water; sol in alc. IDLH 50 ppm.

SYNS: ACID LEATHER BROWN 2G □ ACID ORANGE 24 □ AMINODIMETHYLBENZENE □ 11460 BROWN □ DIMETHYLANILINE □ DIMETHYLPHENYLAMINE □ RESORCINE BROWN J □ RESORCINE BROWN R □ XILIDINE (ITALIAN) □ XYLIDINEN (DUTCH)

TOXICITY DATA with REFERENCE:

orl-rat LDLo:610 mg/kg JIHTAB 31,1,49

ivn-cat LDLo:120 mg/kg JIHTAB 31,1,49

orl-rbt LD50:600 mg/kg 34ZIAG -,637,69

ivn-rbt LDLo:240 mg/kg JIHTAB 31,1,49

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

OSHA PEL: TWA 0.2 ppm (skin)

ACGIH TLV: TWA 0.5 ppm (skin); Animal Carcinogen

DFG MAK: (all isomers except 2,4-xylylidene) 5 ppm (25 mg/m³)

SAFETY PROFILE: Confirmed carcinogen. Poison by intravenous route. Moderately toxic by ingestion. This material, which so closely resembles aniline in the character of its toxic effects, is actually twice as toxic as aniline. It can cause injury to the blood and the liver. It does not necessarily give any alarm or warning, such as cyanosis, headache, and dizziness, which characterize aniline poisoning. Thus, it may be considered a more insidious poison than aniline, and severe and possibly fatal intoxication may come about through skin absorption. Combustible when exposed to heat or flame. Can react vigorously with oxidizing materials. To fight fire, use foam, CO_2 , dry chemical. When heated to decomposition it emits toxic fumes of NO_x . See also ANILINE and other xylylidine entries.

XMJ000 CAS: 87-59-2 HR: 3
2,3-XYLIDINE

mf: $C_8H_{11}N$ mw: 121.20

PROP: Liquid. D: 0.991 @ 15°, mp: <–15°, bp: 220°. Very sltly sol in water; sol in alc, ether.

SYNS: 2,3-DIMETHYLANILINE □ 2,3-DIMETHYLBENZENAMINE □ 2,3-DIMETHYLPHENYLAMINE □ o-XYLIDINE □ 2,3-XYLYLAMINE

TOXICITY DATA with REFERENCE:

mma-sat 5 µmol/plate MUREAV 77,317,80

orl-rat LD50:933 mg/kg NTIS** PB214-270

orl-mus LD50:836 mg/kg PWPSA 8,6,11,63

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DFG MAK: (all isomers except 2,4-xylylidene) 5 ppm (25 mg/m³)

SAFETY PROFILE: A poison. Moderately toxic by ingestion. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x . See also other xylylidine entries.

XMS000 CAS: 95-68-1 HR: 3
2,4-XYLIDINE

mf: $C_8H_{11}N$ mw: 121.20

PROP: Liquid. Bp: 214°, mp: 16°, d: 0.978 @ 19.6°/4°. Very sltly sol in water.

SYNS: 1-AMINO-2,4-DIMETHYLBENZENE □ 4-AMINO-1,3-DIMETHYLBENZENE □ 4-AMINO-3-METHYLTOLUENE □ 4-AMINO-1,3-XYLENE □ 2,4-DIMETHYLANILINE □ 2,4-DIMETHYLBENZENAMINE □ 2,4-DIMETHYLPHENYLAMINE □ 2-METHYL-p-TOLUIDINE □ 4-METHYL-o-TOLUIDINE □ 2,4-XYLIDENE (MAK) □ m-XYLIDINE □ m-4-XYLIDINE

TOXICITY DATA with REFERENCE:

mma-sat 5 µmol/plate MUREAV 77,317,80
dni-mus-ork 200 mg/kg MUREAV 46,305,77
ork-rat LD50:467 mg/kg NTIS** PB214-270
ork-mus LD50:250 mg/kg NTIS** PB214-270

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Inadequate Evidence IMEMDT 16,367,78. Reported in EPA TSCA Inventory.

DFG MAK: Animal Carcinogen, Suspected Human Carcinogen

SAFETY PROFILE: Suspected carcinogen. Poison by ingestion. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also other xylidine entries.

ANALYTICAL METHOD: For occupational chemical analysis use NIOSH: Amines, Aromatic, 2002.

XNA000 CAS: 95-78-3 HR: 3 2,5-XYLIDINE

mf: C₈H₁₁N mw: 121.20

PROP: Colorless oil or pale-yellow leaflets. Bp: 214°, d: 0.979 @ 21°/4°, mp: 155°. Very sltly sol in water.

SYNS: 1-AMINO-2,5-DIMETHYLBENZENE □ 3-AMINO-1,4-DIMETHYLBENZENE □ 2-AMINO-1,4-XYLENE □ 2,5-DIMETHYLANILINE □ 2,5-DIMETHYLBENZENAMINE □ 2,5-DIMETHYLPHENYLAMINE □ 5-METHYL-o-TOLUIDINE □ 6-METHYL-m-TOLUIDINE □ p-XYLIDINE (DOT)

TOXICITY DATA with REFERENCE:

mma-sat 1 µmol/plate MUREAV 77,317,80
dni-mus-ork 200 mg/kg MUREAV 46,305,77
ork-rat LD50:1297 mg/kg NTIS** PB214-270
ork-mus LD50:841 mg/kg NTIS** PB214-270

CONSENSUS REPORTS: IARC Cancer Review: Group 3 IMEMDT 7,56,87; Animal Inadequate Evidence IMEMDT 16,377,78. Reported in EPA TSCA Inventory.

DFG MAK: (all isomers except 2,4-xylidene) Confirmed Animal Carcinogen with Unknown Relevance to Humans

SAFETY PROFILE: Suspected carcinogen. A poison. Moderately toxic by ingestion. Questionable carcinogen. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also other xylidine entries.

XNJ000 CAS: 87-62-7 HR: 3 2,6-XYLIDINE

mf: C₈H₁₁N mw: 121.20

PROP: Liquid. D: 0.980 @ 15°, mp: 10–12°, bp: 216–217°.

SYNS: 2,6-DIMETHYLANILINE □ 2,6-DIMETHYLBENZENAMINE □ NCI-C56188 □ o-XYLIDINE □ 2,6-XYLYLAMINE

TOXICITY DATA with REFERENCE:

mmo-sat 50 µmol/plate JAFCAU 34,157,86
pic-esc 39 µg/well MUREAV 260,349,91

ork-rat TDLo:107 g/kg/2Y-C:CAR NTPTR* NTP-TR-278,90

ork-rat LD50:840 mg/kg TXAPA9 22,153,72

ork-mus LD50:707 mg/kg NTIS** PB214-270

CONSENSUS REPORTS: IARC Cancer Review: Group 2B IMEMDT 57,323,93; Animal Sufficient Evidence IMEMDT 57,323,93; Human Inadequate Evidence IMEMDT 57,323,93. Community Right-To-Know List. Reported in EPA TSCA Inventory.

DFG MAK: Animal Carcinogen, Suspected Human Carcinogen

SAFETY PROFILE: Suspected carcinogen. Moderately toxic by ingestion. Mutation data reported. Questionable carcinogen with experimental carcinogenic data. When heated to decomposition it emits toxic fumes of NO_x. See also other xylidine entries.

XNS000 CAS: 95-64-7 HR: 3 3,4-XYLIDINE

mf: C₈H₁₁N mw: 121.20

PROP: Crystals from pet ether. Mp: 51°, bp: 226°. Insol in water; sol in petroleum ether.

SYNS: 3,4-DIMETHYLAMINO BENZENE □ 3,4-DIMETHYLANILINE □ 3,4-DIMETHYLPHENYLAMINE □ 3,4-XYLYLAMINE

TOXICITY DATA with REFERENCE:

mma-sat 500 nmol/plate MUREAV 77,317,80
dni-mus-ipr 100 mg/kg MUREAV 46,305,77
ork-rat LD50:812 mg/kg AMRI** TR-72-62,72
ork-mus LD50:707 mg/kg NTIS** PB214-270
ork-bwd LD50:5 mg/kg TXAPA9 21,315,72

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DFG MAK: (all isomers except 2,4-xylidene) Confirmed Animal Carcinogen with Unknown Relevance to Humans

SAFETY PROFILE: Suspected carcinogen. Poison by ingestion. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also other xylidine entries.

XOA000 CAS: 108-69-0 HR: 3 3,5-XYLIDINE

mf: C₈H₁₁N mw: 121.20

PROP: An oily liquid. D: 0.972 @ 20°/4°, bp: 221–222°.

SYNS: 3,5-DIMETHYLANILINE □ 3,5-DIMETHYLBENZENAMINE □ 3,5-DIMETHYLPHENYLAMINE □ 3,5-XYLYLAMINE

TOXICITY DATA with REFERENCE:

mmo-sat 1 mg/plate EMMUEG 11(Suppl 12),1,88
ork-rat LD50:707 mg/kg NTIS** PB214-270
ork-mus LD50:421 mg/kg NTIS** PB214-270

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

DFG MAK: (all isomers except 2,4-xylidene) Confirmed Animal Carcinogen with Unknown Relevance to Humans

SAFETY PROFILE: Suspected carcinogen. Moderately toxic by ingestion. Mutation data reported. When heated to decomposition it emits toxic fumes of NO_x. See also other xylidine entries.

XOJ000 CAS: 21436-96-4 HR: 2

2,4-XYLIDINE HYDROCHLORIDEmf: C₈H₁₁N•ClH mw: 157.66**SYNS:** 1-AMINO-2,4-DIMETHYLBENZENE HYDROCHLORIDE

□ 4-AMINO-1,3-DIMETHYLBENZENE HYDROCHLORIDE □ 4-AMINO-3-METHYLTOLUENE HYDROCHLORIDE □ 4-AMINO-1,3-XYLENE HYDROCHLORIDE □ 2,4-DIMETHYLANILINE HYDROCHLORIDE □ 2,4-DIMETHYLBENZENAMINE HYDROCHLORIDE □ 2-METHYL-p-TOLUIDINE HYDROCHLORIDE □ 4-METHYL-o-TOLUIDINE HYDROCHLORIDE □ m-XYLIDINE HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

mmo-sat 5 µmol/plate MUREAV 77,317,80

orl-rat LD50:1259 mg/kg JPETAB 167,223,69

ipr-rat LD50:545 mg/kg NCIBR* NIH-NCI-E-68-1311,10,73

ipr-mus LD50:420 mg/kg NCIBR* NIH-NCI-E-68-1311,10,73

SAFETY PROFILE: Moderately toxic by ingestion and intraperitoneal routes. Questionable carcinogen with experimental neoplastigenic data. Mutation data reported. When heated to decomposition it emits very toxic fumes of NO_x and HCl. See also other xylidine entries.**XOS000 CAS: 51786-53-9 HR: 2****2,5-XYLIDINE HYDROCHLORIDE**mf: C₈H₁₁N•ClH mw: 157.66**PROP:** Crystals. Mp: 228°.**SYNS:** 1-AMINO-2,5-DIMETHYLBENZENE HYDROCHLORIDE

□ 3-AMINO-1,4-DIMETHYLBENZENE HYDROCHLORIDE □ 5-AMINO-1,4-DIMETHYLBENZENE HYDROCHLORIDE □ 2-AMINO-4-METHYLTOLUENE HYDROCHLORIDE □ 2-AMINO-1,4-XYLENE HYDROCHLORIDE □ 2,5-DIMETHYLANILINE HYDROCHLORIDE □ 2,5-DIMETHYLBENZENAMINE HYDROCHLORIDE □ 5-METHYL-o-TOLUIDINE HYDROCHLORIDE □ 6-METHYL-m-TOLUIDINE HYDROCHLORIDE □ p-XYLIDINE HYDROCHLORIDE

TOXICITY DATA with REFERENCE:

ipr-rat LD50:770 mg/kg NCIBR* NIH-NCI-E-68-1311,10,73

ipr-mus LD50:800 mg/kg NCIBR* NIH-NCI-E-68-1311,10,73

SAFETY PROFILE: Moderately toxic by intraperitoneal route. Questionable carcinogen with experimental carcinogenic and tumorigenic data. When heated to decomposition it emits very toxic fumes of NO_x and HCl. See also other xylidine entries.**XOS500 CAS: 23420-61-3 HR: 3****3,4-XYLIDINO-2-OXAZOLINE**mf: C₁₁H₁₄N₂O mw: 190.27**SYNS:** 2-(3,4-DIMETHYLANILINO)-2-OXAZOLINE □ 2-OXAZOLAMINE, N-(3,4-DIMETHYLPHENYL)-4,5-DIHYDRO- □ 2-OXAZOLINE, 3,4-XYLIDINO- □ 2-OXAZOLINE, 2-(3,4-XYLIDINO)- □ A 5160 □ 3,4-XYLIDINE, N-(2-OXAZOLIN-2-YL)-**TOXICITY DATA with REFERENCE:**

ivn-mus LD50:75 mg/kg CSLNX* NX#08312

SAFETY PROFILE: A poison by intravenous route. When heated to decomposition it emits toxic vapors of NO_x.**XPJ000 CAS: 87-99-0 HR: 1****XYLITOL**mf: C₅H₁₂O₅ mw: 152.17**PROP:** White crystals or crystalline powder; sweet taste with cooling sensation. Two forms: metastable, rhombic crystals and stable, monoclinic crystals. Mp: 61–61.5° (metastable), mp: 93–94.5° (stable). Sol in water; sltly sol in alc.**SYNS:** EUTRIT □ KANNIT □ KLINIT □ NEWTOL □ TORCH □ XYLITE □ XYLITE (SUGAR) □ XYLITON**TOXICITY DATA with REFERENCE:**

orl-rat LD50:16,500 mg/kg DRUGAY -,297,90

ivn-rat LD50:10,800 mg/kg DRUGAY -,297,90

orl-mus LD50:12,500 mg/kg GISAAA 36(2),25,71

ipr-mus LD50:22,100 mg/kg RPTOAN 34,124,71

ivn-mus LD50:12 g/kg NIPDAD 47,1,90

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.**SAFETY PROFILE:** Very low toxicity by ingestion. When heated to decomposition it emits acrid smoke and irritating fumes. A sugar.**XPJ100 CAS: 13164-03-9 HR: D****XYLOLTENIN**mf: C₁₆H₁₄O₃ mw: 254.30**SYNS:** CHALEPENSIN □ 6-(1,1-DIMETHYLLALLYL)-7H-FURO(3,2-G)(1)BENZOPYRAN-7-ONE □ 6-(1-1-DIMETHYL-2-PROPENYL)-7H-FURO(3,2-G)(1)BENZOPYRAN-7-ONE □ 7H-FURO(3,2-G)(1)BENZOPYRAN-7-ONE, 6-(1,1-DIMETHYL-2-PROPENYL)-(9CI) □ 7H-FURO(3,2-G)(1)BENZOPYRAN-7-ONE,6-(1,1-DIMETHYLLALLYL)-**SAFETY PROFILE:** Experimental reproductive effects. When heated to decomposition it emits acrid smoke and irritating vapors.**XPJ300 CAS: 6619-97-2 HR: 3****XYLOPIC ACID****PROP:** Xylopia aethiopica. Family Annonacea.JOETD7 mf: C₂₂H₃₂O₄ mw: 360.49**SYNS:** KAUR-16-EN-18-OIC ACID, 15-(ACETYLOXY)-, (4-α,15-β)- □ AA/2**TOXICITY DATA with REFERENCE:**

ipr-rat LD50:0.5 ng/kg JOETD7 77,165,2001

ipr-rat TDLo:20 mg/kg JOETD7 77,165,2001

orl-rat TDLo:50 mg/kg JOETD7 77,165,2001

SAFETY PROFILE: A poison by ingestion and intraperitoneal routes. When heated to decomposition it emits acrid smoke and irritating vapors.**XQJ000 CAS: 137-18-8 HR: 3****p-XYLOQUINONE**mf: C₈H₈O₂ mw: 136.16**PROP:** Yellow triclinic crystals from alc. Mp: 125°. Sltly sol in hot water; sol in alc.**SYNS:** 2,5-DIMETHYL-p-BENZOQUINONE □ 2,5-DIMETIL-BENZOCHINONE (1:4) (ITALIAN) □ FLORONE (ITALIAN) □ PHLORONE**TOXICITY DATA with REFERENCE:**

orl-rat LDLo:500 mg/kg NCNSA6 5,39,53

orl-mus LD50:290 mg/kg BCFAAI 97,533,58

ipr-mus LD50:11 mg/kg BCFAAI 97,533,58

scu-mus LD50:43 mg/kg BCFAAI 97,533,58

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Poison by ingestion, intraperitoneal, and subcutaneous routes. When heated to decomposition it emits acrid smoke and irritating fumes. See also KETONES.

**XQJ300 CAS: 58-86-6 HR: 1
(D)-XYLOSE**

mf: $C_5H_{10}O_5$ mw: 150.15

PROP: White crystals. D: 1.525, mp: 145°. Sol in water.

SYN: XYLOSE, D-

TOXICITY DATA with REFERENCE:

orl-mus LD50:23 g/kg YKYUA6 32,1367,81

ivn-mus LD50:11,300 mg/kg YKYUA6 32,1367,81

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Slightly toxic by ingestion and intravenous routes. When heated to decomposition it emits acrid smoke and irritating vapors.

**XQJ650 CAS: 25546-65-0 HR: 3
XYLOSTATIN**

mf: $C_{17}H_{34}N_4O_{10}$ mw: 454.55

PROP: Colorless needles from methanol. Mp: 192–195°. Sol in water; sltly sol in methanol. Practically insol in acetone, n-butanol, ethyl acetate, benzene, hexane, and ether.

SYNS: ANTIBIOTIC SF 733 □ o-2,6-DIAMINO-2,6-DIDEOXY-α-d-GLUCOPYRANOSYL-(1-4)-O-(β-d-RIBOFURANOSYL-(1-5))-2-DEOXY-d-STREPTAMINE □ RIBOSTAMYCIN □ SF 733 □ VISTAMYCIN

TOXICITY DATA with REFERENCE:

ipr-rat LD50:4400 mg/kg KSRNAM 4,2464,70

ivn-rat LD50:535 mg/kg KSRNAM 4,2464,70

ims-rat LD50:1850 mg/kg NKRZAZ 32,949,84

orl-mus LD50:7000 mg/kg 85GDA2 1,141,80

ipr-mus LD50:2830 mg/kg KSRNAM 4,2464,70

scu-mus LD50:3350 mg/kg

KSRNAM 4,2464,70

ivn-mus LD50:300 mg/kg KSRNAM 4,2464,70

ims-mus LD50:1600 mg/kg 85GDA2 1,141,80

CONSENSUS REPORTS: EPA Genetic Toxicology Program.

SAFETY PROFILE: Poison by intravenous route. Moderately toxic by intramuscular and intraperitoneal routes. Mildly toxic by ingestion. An experimental teratogen. Experimental reproductive effects. When heated to decomposition it emits toxic fumes of NO_x .

**XQJ700 CAS: 2216-45-7 HR: 1
p-XYLYL ACETATE**

mf: $C_{10}H_{12}O_2$ mw: 164.22

SYNS: p-ACETOXYMETHYLTOLUENE □ BENZENE-METHANOL, 4-METHYL-, ACETATE □ BENZYL ALCOHOL, p-METHYL-, ACETATE (6Cl,7Cl,8Cl) □ 4-METHYLBENZENE-METHANOL ACETATE □ p-METHYLBENZYL ACETATE □ 4-METHYLBENZYL ACETATE □ p-TOLUBENZYL ACETATE

TOXICITY DATA with REFERENCE:

orl-rat LD50:5 g/kg FCTOD7 30,79S,92

skn-rbt LDLo:5 g/kg FCTOD7 30,79S,92

CONSENSUS REPORTS: Reported in EPA TSCA Inventory.

SAFETY PROFILE: Low toxicity by ingestion and skin contact. When heated to decomposition it emits acrid smoke and irritating vapors.

**XQS000 CAS: 61-68-7 HR: 3
N-(2,3-XYLYL)ANTHRANILIC ACID**

mf: $C_{15}H_{15}NO_2$ mw: 241.31

PROP: A solid. Mp: 230–231°. Sol in alkalis.

SYNS: BAFHAMERITIN-M □ BONABOL □ CI-473 □ CN-35355 □ COSLAN □ 2',3'-DIMETHYL-2-DIPHENYLAMINECARBOXYLIC ACID □ 2-((2,3-DIMETHYLPHENYL)AMINO)BENZOIC ACID □ N-(2,3-DIMETHYLPHENYL)ANTHRANILIC ACID □ INF 3355 □ LYSALGO □ MEFENAMIC ACID □ MEPHENAMINIC ACID □ METHENAMIC ACID □ NAMPHEN □ PARKEMED □ PONALAR □ PONSTAN □ PONSTEL □ PONSTIL □ PONSTYL □ PONTAL □ TANSTON □ VIALDON □ N-(2,3-XYLYL)-2-AMINOBENZOIC ACID

TOXICITY DATA with REFERENCE:

orl-man TDLo:840 mg/kg/6W-I:GIT BMJOAE

287,1626,83

orl-man TDLo:257 mg/kg/12D-I:KID BMJOAE

291,661,85

orl-wmn TDLo:450 mg/kg:EYE,CNS SAMJAF 67,823,85

orl-wmn TDLo:20 mg/kg/4D-I:GIT CMAJAX 126,894,82

unr-wmn TDLo:120 mg/kg/4D LANCAO 2,745,80

orl-rat LD50:740 mg/kg TOIZAG 28,99,81

ipr-rat LD50:327 mg/kg TXAPA9 18,185,71

ivn-rat LD50:112 mg/kg CMROCX 4,17,76

orl-mus LD50:525 mg/kg JNPHAG 2,259,71

ipr-mus LD50:120 mg/kg ARZNAD 19,36,69

ivn-mus LD50:96 mg/kg YKKZAJ 89(10),1392,69

ivn-cat LD50:100 mg/kg CMROCX 4,17,76

SAFETY PROFILE: Poison by intraperitoneal and intravenous routes. Moderately toxic by ingestion. Human systemic effects: changes in kidney tubules, changes in structure or function of exocrine pancreas, convulsions or effect on seizure threshold, diarrhea, hypermotility, mydriasis, toxic psychosis, ulceration or bleeding from large intestine. Human reproductive effects by ingestion: menstrual cycle changes or disorders. An experimental teratogen. When heated to decomposition it emits toxic fumes of NO_x . Used as an anti-inflammatory agent.

**XRA000 CAS: 3118-97-6 HR: 2
1-(2,4-XYLYLAZO)-2-NAPHTHOL**

mf: $C_{18}H_{16}N_2O$ mw: 276.36

SYNS: A.F. RED No. 5 □ AIZEN FOOD RED No. 5 □ BRASILAZINA OIL SCARLET 6G □ BRILLIANT OIL SCARLET B □ CALCO OIL SCARLET BL □ CERES ORANGE RR □ CERISOL SCARLET G □ CEROTINSCHARLACH G □ C.I. 12140 □ C.I. SOLVENT ORANGE 7 □ 1-((2,4-DIMETHYLPHENYL)AZO)-2-NAPHTHALENOL □ EXTRACT D&C RED No. 14 □ FAST OIL ORANGE II □ FAT RED (YELLOWISH) □ FAT SCARLET 2G □ FETTORANGE B □ GRASAN ORANGE 3R □ LACQUER ORANGE VR □ MOTIROT G □ OIL ORANGE KB □ OIL ORANGE N EXTRA □ OIL ORANGE R □ OIL ORANGE 2R □ OIL ORANGE X □ OIL ORANGE XO □ OIL RED GRO □ OIL RED O □ OIL RED RO □ OIL RED XO □ OIL SCARLET □ OIL SCARLET 371 □ OIL SCARLET APYO □ OIL SCARLET BL □ OIL SCARLET 6G □ OIL SCARLET L □ OIL SCARLET YS □ ORANGE INSOLUBLE OLG □ ORANGE INSOLUBLE RR □ ORANGE OIL KB □ PONCEAU INSOLUBLE OLG □ PYRON-

ALROT R □ RED B □ RED No. 5 □ RESIN SCARLET 2R □
RESOFORM ORANGE R □ ROT B □ ROT GG FETTLÖS-LICH
□ SOMALIA ORANGE A2R □ SOMALIA ORANGE 2R □
SUDAN II □ SUDAN AX □ SUDAN ORANGE □ SUDAN
ORANGE RPA □ SUDAN ORANGE RRA □ SUDAN RED □
SUDAN SCARLET 6G □ SUDAN X □ WAXAKOL VERMILION L
□ 1-XYLYLAZO-2-NAPHTHOL □ 1-(o-XYLYLAZO)-2-
NAPHTHOL

TOXICITY DATA with REFERENCE:

mma-sat 50 µg/plate MUREAV 44,9,77

CONSENSUS REPORTS: IARC Cancer Review:
Group 3 IMEMDT 7,56,87; Animal Sufficient Evidence
IMEMDT 8,233,75. Reported in EPA TSCA Inventory.
Community Right-To-Know List. EPA Genetic
Toxicology Program.

SAFETY PROFILE: Questionable carcinogen with
experimental carcinogenic data. Mutation data reported.
When heated to decomposition it emits toxic fumes of
NO_x.

XRS000 CAS: 35884-77-6 HR: 3

XYLYL BROMIDE

DOT: UN 1701

mf: C₈H₉Br mw: 185.08

PROP: Colorless liquid. Bp: 212–215° (slt decomp), d:
1.371 @ 23°. Almost insol in water; sol in alc, ether.

SYN: BROMURE de XYLYLE (FRENCH)

DOT CLASSIFICATION: 6.1; Label: Poison

SAFETY PROFILE: A poison. A powerful irritant.
When heated to decomposition it emits toxic fumes of
Br⁻.

XSJ000 CAS: 102584-86-1 HR: D
1,1'-(p-XYLYLENE)BIS(3-(1-AZIRIDINYL)UREA)

mf: C₁₄H₂₀N₆O₂ mw: 304.40

SYN: N,N'-BIS-AZIRIDINYLFORMYL-1,4-XYLENEDIAMINE

TOXICITY DATA with REFERENCE:

mmo-sat 3290 mg/L MUREAV 31,115,75

mmo-esc 1880 µg/plate MUREAV 31,115,75

SAFETY PROFILE: Mutation data reported. When
heated to decomposition it emits toxic fumes of NO_x. See
also AMINES.

XSS000 CAS: 1519-47-7 HR: 3
p-XYLYLENEBIS(TRIPHENYLPHOSPHONIUM
CHLORIDE)

mf: C₄₄H₃₈P₂•2Cl mw: 699.66

PROP: Crystals from DMF or EtOH. Mp: 414°.

TOXICITY DATA with REFERENCE:

ivn-mus LD50:891 µg/kg CSLNX* NX#00609

CONSENSUS REPORTS: Reported in EPA TSCA
Inventory.

SAFETY PROFILE: Poison by intravenous route.
When heated to decomposition it emits very toxic fumes
of PO_x and Cl⁻.

XSS250 CAS: 28347-13-9 HR: 3
XYLYLENE CHLORIDE

mf: C₈H₈Cl₂ mw: 175.06

SYNS: BIS(CHLOROMETHYL)BENZENE □ DICHLOROXYL-
ENE □ α,α'-DICHLOROXYLENE □ XYLYLENE DICHLORIDE

TOXICITY DATA with REFERENCE:

orl-rat LD50:1 g/kg 85GMAT -,26,82

ihl-rat LC50:200 mg/m³/4H 85GMAT -,26,82

orl-mus LD50:470 mg/kg 85GMAT -,26,82

ihl-mus LC75:75 mg/m³/2H 85GMAT -,26,82

CONSENSUS REPORTS: EPA Extremely Hazardous
Substances List.

SAFETY PROFILE: Poison by inhalation. Moderately
toxic by ingestion. When heated to decomposition it emits
toxic fumes of Cl⁻. See CHLORINATED
HYDRDOCARBONS, AROMATIC.

XSS260 CAS: 1014-98-8 HR: 3

p-XYLYLENE ISOCYANATE

DOT: UN 2206/UN 2207/UN 2478/UN 3080

mf: C₁₀H₆N₂O₂ mw: 186.18

SYN: ISOCYANIC ACID, p-XYLYLENE ESTER

TOXICITY DATA with REFERENCE:

orl-rat LD50:4500 mg/kg TPKVAL 15,128,79

orl-mus LD50:900 mg/kg TPKVAL 15,128,79

DOT CLASSIFICATION: 6.1; Label: KEEP AWAY
FROM FOOD (UN 2207); Class: 6.1; Label: Poison (UN
2206); Class: 6.1; Label: Poison, Flammable Liquid (UN
3080); Class: 3; Label: Flammable Liquid, Poison (UN
2478)

SAFETY PROFILE: A poison. A flammable liquid.
When heated to decomposition it emits toxic vapors of
CN⁻.

XSS375 CAS: 2014-25-7 HR: 3

s,6-XYLYL ESTER of 1-PIPERIDINEACETIC ACID HYDROCHLORIDE

mf: C₁₅H₂₁NO₂•ClH mw: 283.83

SYN: FC 403

TOXICITY DATA with REFERENCE:

skn-rbt 200 mg MOD BCFAAI 107,310,68

eye-rbt 1 g MOD BCFAAI 107,310,68

scu-mus LD50:1400 mg/kg BCFAAI 107,310,68

ivn-mus LD50:32 mg/kg BCFAAI 107,310,68

SAFETY PROFILE: Poison by intravenous route.
Moderately toxic by subcutaneous route. An eye and skin
irritant. When heated to decomposition it emits toxic
fumes of NO_x and HCl.

XSS900 CAS: 669-49-8 HR: 3

2,6-XYLYL ETHER BROMIDE

mf: C₁₃H₂₂NO•Br mw: 288.27

SYNS: CHOLINE-2,6-XYLYL ETHER BROMIDE □ 2-(2,6-
DIMETHYLPHENOXY)-N,N,N-TRIMETHYL-ETHANAMINIUM
BROMIDE (9CI) □ 1 DM 10 □ TM 10 □ TRIMETHYL(2-(2,6-
XYLYLOXY)ETHYL)AMMONIUM BROMIDE □ XYLOCHOLINE
□ XYLOCHOLINE BROMIDE

TOXICITY DATA with REFERENCE:

ipr-mus LD50:95 mg/kg BJPICAL 9,471,54

scu-mus LD50:240 mg/kg BJPICAL 12,312,57

ivn-mus LD50:8500 µg/kg BJPICAL 12,312,57

SAFETY PROFILE: Poison by subcutaneous,
intravenous, and intraperitoneal routes. When heated to
decomposition it emits toxic fumes of Br⁻, NO_x, and
NH₃. See also BROMIDES.

XSS923 CAS: 31581-09-6 HR: 2**N-2,3-XYLYLMALEIMIDE**mf: C₁₂H₁₁NO₂ mw: 201.24**SYNS:** N-(2,3-DIMETHYLPHENYL)MALEIMIDE □

MALEIMIDE, N-2,3-XYLYL- □ 1H-PYRROLE-2,5-DIONE, 1-(2,3-DIMETHYLPHENYL)-

TOXICITY DATA with REFERENCE:

eye-rbt 100 mg SEV NTIS** OTS0544766

ihl-rat LCLo:1400 mg/m³/4H NTIS** OTS0572046**SAFETY PROFILE:** Low toxicity by ingestion.

inhalation. A severe eye irritant. When heated to

decomposition it emits toxic vapors of NO_x.**XTJ000 CAS: 2425-10-7 HR: 3****3,4-XYLYL METHYLCARBAMATE**mf: C₁₀H₁₃NO₂ mw: 179.24**PROP:** Crystals. Spar sol in H₂O. Mp: 79–80°.**SYNS:** 3,4-DIMETHYLPHENOL METHYLCARBAMATE □ 3,4-DIMETHYLPHENYL-N-METHYLCARBAMATE □ MEOBAL □ N-METHYLCARBAMIC ACID, (3,4-DIMETHYLPHENYL)ESTER □ METHYLCARBAMIC ACID-3,4-XYLYL ESTER □ MPCM □ S-1046 □ V 17004**TOXICITY DATA with REFERENCE:**

cyt-ham:fbr 125 mg/L/48H MUREAV 48,337,77

cyt-ham:lng 340 mg/L GMCRCDC 27,95,81

orl-rat LD50:290 mg/kg GUHAZ 6,218,73

orl-mus LD50:60 mg/kg GUHAZ 6,218,73

CONSENSUS REPORTS: Reported in EPA TSCA

Inventory. EPA Genetic Toxicology Program.

SAFETY PROFILE: Poison by ingestion. Mutation

data reported. When heated to decomposition it emits

toxic fumes of NO_x. An insecticide used to control

hoppers on rice and scales on fruit. See also

CARBAMATES.

XTS000 CAS: 2425-10-7 HR: D**3,4-XYLYL-N-METHYLCARBAMATE, nitrosated**mf: C₁₀H₁₂N₂O₃ mw: 208.24**SYNS:** MEOBAL, NITROSATED (JAPANESE) □

METHYLNITROSOCARBAMIC ACID 3,4-XYLYL ESTER

TOXICITY DATA with REFERENCE:

mmo-esc 10 µg/plate BECTA6 14,389,75

cyt-ham:lng 5 mg/L GMCRCDC 27,95,81

SAFETY PROFILE: Mutation data reported. Many

nitroso compounds are carcinogens. When heated to

decomposition it emits toxic fumes of NO_x. See also

NITROSO COMPOUNDS.

XVA000 CAS: 69781-89-1 HR: 3**(2-(3,5-XYLYLOXY)ETHYL)HYDRAZINE HYDROCHLORIDE**mf: C₁₀H₁₆N₂O•ClH mw: 216.74**TOXICITY DATA with REFERENCE:**

orl-mus LD50:250 mg/kg JMCAR 6,63,63

ipr-mus LD50:250 mg/kg JMCAR 6,63,63

SAFETY PROFILE: Poison by ingestion and

intraperitoneal routes. When heated to decomposition it

emits very toxic fumes of Cl⁻ and NO_x.**XVJ000 CAS: 97196-24-2 HR: 3****(2-(3,4-XYLYLOXY)ETHYL)HYDRAZINE MALEATE**mf: C₁₀H₁₆N₂O•C₄H₄O₄ mw: 296.36**TOXICITY DATA with REFERENCE:**

orl-mus LD50:750 mg/kg JMCAR 6,63,63

ipr-mus LD50:375 mg/kg JMCAR 6,63,63

SAFETY PROFILE: Poison by intraperitoneal route.

Moderately toxic by ingestion. When heated to

decomposition it emits toxic fumes of NO_x.**XVS000 CAS: 1665-48-1 HR: 2****5-((3,5-XYLYLOXY)METHYL)-2-OXAZOLIDINONE**mf: C₁₂H₁₅NO₃ mw: 221.28**SYNS:** 5-((3,5-DIMETHYLPHENOXY)METHYL)-2-OXAZOLIDINONE □

METAXALONE □ METAZALONE □

METAZOLONE □ METHOXOLONE □ SKELAXIN □

5-(3,5-XYLOXYMETHYL)OXAZOLIDIN-2-ONE □ ZORANE

TOXICITY DATA with REFERENCE:

orl-rat LD50:775 mg/kg 27ZQAG -,261,72

ipr-rat LD50:515 mg/kg ARZNAD 17,242,67

orl-mus LD50:1690 mg/kg AIPTAK 233,326,78

ipr-mus LD50:490 mg/kg 27ZQAG -,261,72

SAFETY PROFILE: Moderately toxic by ingestion and

intraperitoneal routes. When heated to decomposition it

emits toxic fumes of NO_x. See also KETONES.**XWS000 CAS: 78371-75-2 HR: 3****2-(2,6-XYLYLOXY)TRIETHYLAMINE HYDROCHLORIDE**mf: C₁₄H₂₃NO•ClH mw: 257.84**SYN:** C 3219**TOXICITY DATA with REFERENCE:**

eye-rbt 2% MLD ARZNAD 8,708,58

ipr-rat LD50:67 mg/kg ARZNAD 8,708,58

scu-mus LD50:155 mg/kg ARZNAD 8,708,58

SAFETY PROFILE: Poison by intraperitoneal and

subcutaneous routes. An eye irritant. When heated to

decomposition it emits very toxic fumes of NO_x and HCl.

See also AMINES.

XWS100 CAS: 77248-44-3 HR: 3**((2,6-XYLYL)SULFINYL)METHYLCARBAMIC ACID-2,3-DIHYDRO-2,2-DIMETHYL-7-BENZOFURANYL ESTER**mf: C₂₀H₂₃NO₅S mw: 389.50**SYNS:** CARBAMIC ACID, ((2,6-DIMETHYLPHENOXY)SULFINYL)METHYL-, 2,3-DIHYDRO-2,2-DIMETHYL-7-BENZOFURANYL

ESTER □ 2,3-DIHYDRO-2,2-DIMETHYLBENZOFURANYL-7-

(METHYL)(2,6-DIMETHYLPHENOXYSULFINYL)CARBAMATE

TOXICITY DATA with REFERENCE:

orl-mus LD50:100 mg/kg JAFCAU 29,567,1981

SAFETY PROFILE: A poison by ingestion. When heated to decomposition it emits toxic vapors of NO_x and SO_x.