

## mixed xylenes

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## 1. Allgemeine Informationen

### 1.1 Beschreibung

The data presented here include the gross or cumulative energy requirements, the gross energy data expressed in terms of primary fuels, the energy data expressed as masses of fuels, the raw materials requirements, the demand for water, the air emissions, the corresponding carbon dioxide equivalents of these air emissions, the emissions to water, and the generated solid waste associated with the production of 1 kg of mixed xylenes (further information and flow charts at [www.lca.plasticseurope.org](http://www.lca.plasticseurope.org)).

### 1.2 Referenzen

#1 PlasticsEurope 2005: Eco-profiles of the European Plastics Industry. [www.lca.plasticseurope.org](http://www.lca.plasticseurope.org) March 2005.

### 1.3 Projektspezifika

Es liegen hierzu keine Angaben vor.

### 1.4 Weitere Metadaten

Quelle	PlasticsEurope
Projekte	
Bearbeitet durch	-
Datensatzprüfung	Kein Review
Ortsbezug	Europa
Zeitbezug	keine Angabe

### 1.5 Technische Kennwerte

Funktionelle Einheit	1 kg mixed xylenes
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## 2. Inputs/Outputs

### Outputs

<u>Input</u>	<u>Menge</u>	<u>Einheit</u>
mixed xylenes	1	kg

### 3. Umweltaspekte

#### 3.1 Ressourcen

<u>Ressource</u>	<u>direkt</u>	<u>inkl. Vorkette</u>	<u>Einheit</u>
Air	0	527832	mg
Animal matter	0	351E-9	mg
Barytes	0	0,0314	mg
Bauxite	0	1,42	mg
Bentonite	0	94,6	mg
Biomass (including water)	0	6075	mg
Biomass (liquid/gas)	0	0,035	MJ
Biomass (solid)	0	0,0188	MJ
Calcium sulphate (CaSO <sub>4</sub> )	0	9,44	mg
Chalk (CaCO <sub>3</sub> )	0	340E-30	mg
Clay	0	0,000287	mg
Coal	0	55588	mg
Coal	0	1,59	MJ
Cr	0	1,77E-6	mg
Crude oil	0	802711	mg
Cu	0	0,0109	mg
Dolomite	0	4,08	mg
Electricity	0	4,05	MJ
Fe	0	332	mg
Feldspar	0	262E-12	mg
Ferromanganese	0	0,302	mg
Fluorspar	0	0,338	mg
Gas	0	27,4	MJ
Gas/condensate	0	543218	mg
Geothermal	0	0,0059	MJ
Granite	0	1,94E-9	mg
Gravel	0	1,23	mg
Hg	0	0,000702	mg
Hydro	0	0,0737	MJ
Hydrogen	0	0,000278	MJ
Industrial waste	0	0,00429	MJ
Lignite	0	0,0313	mg
Lignite	0	470E-9	MJ
Limestone (CaCO <sub>3</sub> )	0	326	mg
Metallurgical coal	0	134	mg

### 3.1 Ressourcen (Fortsetzung)

Ressource	direkt	inkl. Vorkette	Einheit
Mg	0	2,54E-12	mg
Municipal Waste	0	0,0194	MJ
N2	0	253891	mg
Ni	0	695E-9	mg
Nuclear	0	1,14	MJ
O2	0	6,04	mg
Oil	0	36,1	MJ
Oil fuels	0	35,5	MJ
Olivine	0	3,12	mg
Other fuels	0	24,5	MJ
Pb	0	0,213	mg
Peat	0	0,00112	MJ
Peat	0	126	mg
Phosphate as P2O5	0	2,97E-6	mg
Potassium chloride (KCl)	0	0,00498	mg
Quartz (SiO2)	0	108E-21	mg
Recovered energy	0	-2,32	MJ
Rutile	0	489E-30	mg
S (bonded)	0	0,000656	mg
S (elemental)	0	75,4	mg
Sand (SiO2)	0	105	mg
Shale	0	26,7	mg
Sodium chloride (NaCl)	0	422	mg
Sodium nitrate (NaNO3)	0	7,63E-12	mg
Solar	0	28,7E-6	MJ
Sulphur	0	0,000698	MJ
Talc	0	1,24E-21	mg
Unspecified	0	0,000183	MJ
Unspecified	0	2,38E-42	mg
Water Use - Public supply	0	393634	mg
Water Use - River canal	0	247110	mg
Water Use - Sea	0	5441377	mg
Water Use - Unspecified	0	68073295	mg
Water Use - Well	0	320	mg
Wave/tidal	0	0,000174	MJ
Wind	0	0,0045	MJ
Wood	0	19E-6	MJ

### 3.1 Ressourcen (Fortsetzung)

<u>Ressource</u>	<u>direkt</u>	<u>inkl. Vorkette</u>	<u>Einheit</u>
Wood	0	2,15	mg
Zn	0	0,00778	mg

### 3.2 Luftemissionen

<u>Name</u>	<u>direkt</u>	<u>inkl. Vorkette</u>	<u>Einheit</u>
Ag+compounds as Ag	0	58,9E-9	mg
aldehyde (-CHO)	0	611E-12	mg
aromatic HC not specified elsewhere	0	28,9	mg
As+compounds as As	0	63E-6	mg
asbestos	0	434E-12	mg
benzene C6H6	0	3,92	mg
Cd+compounds as Cd	0	14,1E-6	mg
CFC/HCFC/HFC not specified elsewhere	0	0,0078	mg
CH4	0	12892	mg
Cl2	0	63,3E-6	mg
CO	0	2161	mg
CO2	0	1307550	mg
Cr+compounds as Cr	0	6,15	mg
CS2	0	64,3E-6	mg
Cu+compounds as Cu	0	17,9E-6	mg
dichloroethane (DCE) C2H4Cl2	0	10,2E-6	mg
dioxin/furan as Teq	0	115E-27	mg
dust (PM10)	0	448	mg
ethylbenzene C8H10	0	0,84	mg
ethylene C2H4	0	2,86	mg
F2	0	22,3E-6	mg
H2	0	29,6	mg
H2S	0	0,0112	mg
H2SO4	0	3,17E-9	mg
HCl	0	28,6	mg
HCN	0	2,08E-12	mg
HF	0	1,07	mg
Hg+compounds as Hg	0	0,00109	mg
hydrocarbons not specified elsewhere	0	1715	mg
mercaptan	0	0,0182	mg
metals not specified elsewhere	0	0,854	mg

### 3.2 Luftemissionen (Fortsetzung)

<u>Name</u>	<u>direkt</u>	<u>inkl. Vorkette</u>	<u>Einheit</u>
methylene chloride CH <sub>2</sub> Cl <sub>2</sub>	0	181E-9	mg
N <sub>2</sub> O	0	75E-6	mg
NH <sub>3</sub>	0	0,000123	mg
Ni+compounds as Ni	0	11,2	mg
NMVOG	0	10,5	mg
NOX as NO <sub>2</sub>	0	2352	mg
organics	0	221	mg
organo-chlorine not specified elsewhere	0	0,00421	mg
oxygen	0	32,1E-9	mg
Pb+compounds as Pb	0	0,000511	mg
polycyclic hydrocarbons (PAH)	0	11,2	mg
propylene	0	2,12	mg
Sb+compounds as Sb	0	1,77E-9	mg
Se+compounds as Se	0	2,04E-9	mg
SOX as SO <sub>2</sub>	0	2777	mg
styrene	0	0,000565	mg
toluene C <sub>7</sub> H <sub>8</sub>	0	2,16	mg
vinyl chloride monomer (VCM)	0	0,000208	mg
xylenes C <sub>8</sub> H <sub>10</sub>	0	1,4	mg
Zn+compounds as Zn	0	49,3E-6	mg

### Luftemissionen (Aggregierte Werte)

<u>Name</u>	<u>direkt</u>	<u>inkl. Vorkette</u>	<u>Einheit</u>
CO <sub>2</sub> Equivalents - 100 year equiv	0	1613534	mg
CO <sub>2</sub> Equivalents - 20 year equiv	0	2116320	mg
CO <sub>2</sub> Equivalents - 500 year equiv	0	1407263	mg

### 3.3 Gewässereinleitungen

<u>Name</u>	<u>direkt</u>	<u>inkl. Vorkette</u>	<u>Einheit</u>
acid as H <sup>+</sup>	0	1,64	mg
Al+compounds as Al	0	1,12	mg
ammonium compounds as NH <sub>4</sub> <sup>+</sup>	0	1,89	mg
AOX	0	640E-9	mg
As+compounds as As	0	0,000543	mg
benzene	0	995E-18	mg
BOD	0	51,7	mg

### 3.3 Gewässereinleitungen (Fortsetzung)

Name	direkt	inkl. Vorkette	Einheit
BrO3--	0	0,000662	mg
Ca+compounds as Ca	0	0,0278	mg
Cd+compounds as Cd	0	4,4E-9	mg
Cl-	0	98,8	mg
ClO3--	0	0,0977	mg
CN-	0	31,5E-6	mg
CO3--	0	115	mg
COD	0	231	mg
Cr+compounds as Cr	0	5,68E-6	mg
Cu+compounds as Cu	0	0,0193	mg
detergent/oil	0	29,7	mg
dichloroethane (DCE)	0	225E-9	mg
dioxin/furan as Teq	0	167E-12	mg
dissolved chlorine	0	0,00128	mg
dissolved organics (non-hydrocarbon)	0	4,83	mg
dissolved solids not specified elsewhere	0	21,5	mg
F-	0	0,00123	mg
Fe+compounds as Fe	0	0,0142	mg
Hg+compounds as Hg	0	0,000141	mg
hydrocarbons not specified elsewhere	0	12,2	mg
K+compounds as K	0	0,000146	mg
metals not specified elsewhere	0	11,7	mg
Mg+compounds as Mg	0	0,000546	mg
Mn+compounds as Mn	0	17,3E-9	mg
Na+compounds as Na	0	120	mg
Ni+compounds as Ni	0	0,000364	mg
NO3-	0	4,34	mg
organo-chlorine not specified elsewhere	0	0,00559	mg
organo-silicon	0	130E-15	mg
organo-tin as Sn	0	231E-12	mg
other nitrogen as N	0	2,64	mg
other organics not specified elsewhere	0	55,4E-6	mg
P+compounds as P	0	0,125	mg
Pb+compounds as Pb	0	0,000241	mg
phenols	0	0,603	mg
S+sulphides as S	0	10,8E-6	mg
SO4--	0	377	mg



### 3.3 Gewässereinleitungen (Fortsetzung)

Name	direkt	inkl. Vorkette	Einheit
Sr+compounds as Sr	0	10,2E-6	mg
Suspended Solids	0	79,4	mg
TOC	0	33,6	mg
vinyl chloride monomer (VCM)	0	3,85E-6	mg
Zn+compounds as Zn	0	0,0384	mg

### 3.4 Abfälle

Name	direkt	inkl. Vorkette	Einheit
Construction waste	0	90,7	mg
Inert chemical	0	757	mg
Metals	0	49,5E-6	mg
Mineral waste	0	387	mg
Mixed industrial	0	851	mg
Municipal solid waste	0	-1832	mg
Paper	0	5,96E-6	mg
Plastic containers	0	441E-9	mg
Plastics	0	6,54	mg
Putrescibles	0	0,00616	mg
Regulated chemicals	0	1151	mg
Slags ash	0	4325	mg
Tailings	0	1,32	mg
Unregulated chemicals	0	731	mg
Unspecified refuse	0	648	mg
Waste returned to mine	0	10819	mg
Waste to incinerator	0	127	mg
Waste to recycling	0	152	mg
Wood waste	0	0,043	mg
Wooden pallets	0	2,16E-6	mg