

EUROPEAN MARKET REPORT - AROMATICS

March 21st, 2011 Issue No. 275

SUPPLEMENT

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SUPPLEMENTARY DATA REPORT

The European Market Report Aromatics (EMRA) supplement provides clients with the key pieces of background data that support the analyses in CMAI's market reports. This report contains operating schedules, trade statistics, supply/demand balances, historical prices and production economics. For their internal use, clients of the EMRA are entitled to obtain updates on any of the data in this report from CMAI. Please contact the CMAI Client Service Representative for further data assistance.

The operations schedules are intended to be used as a comprehensive list of operational plans in order to anticipate periods where supply may be constrained so that buyers and producers can prepare accordingly. Note that in almost all cases, the schedules for maintenance turnarounds represent tentative schedules only. Also, we should point out that in the case of any planned turnarounds, tentative schedules have mostly been confirmed with respective producers. At times, CMAI must make an estimate of scheduled outages and they are noted as such on the schedules. Also, some producers occasionally ask to have plans withheld from this printing, and we honour their requests.

The European product pricing and economics is intended to be a handy "desk reference" of price histories and economics over the short term. The economic calculations are intended to represent general industry numbers to reflect the changes in profit margins over an extended period of time. Detailed economic calculations are available upon request through the EMRA service and our website.

The supply/demand balances outline quarterly production, consumption and trade data, so far as official statistics are available to us. Where official statistics are unavailable, we have used our estimates.

Import and export trade data is published quarterly for the original 15 European Union Member states. The source of this data is the World Trade Atlas and is presented without adjustment. It should be noted that the balances published in our World Analyses are reviewed in light of all available trade data from all data reporting bodies and there may therefore be some inaccuracies in this data, which have not been overwritten. It is recommended that the data be viewed as a guide only.

This report is for the exclusive use of the client company. Distribution outside of the client company is strictly prohibited without the prior written consent of Chemical Market Associates, Inc. (CMAI).

The prices presented herein are strictly the opinion of CMAI and are based on information collected within the public sector and on assessments by CMAI staff.

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Short Term Price Trends: Gasoline / Aromatics

| 2011 | Week | US Gulf Premium \$/t (1) | R'dam Premium \$/t (2) | Brent Crude \$/t | US Gulf Toluene \$/t | US Gulf Benzene \$/t | R'dam Toluene \$/t | US Gulf Benzene \$/t | R'dam Benzene \$/t | US Gulf Premium Crude | R'dam Premium Crude | US Gulf Premium Crude | R'dam Premium Crude |
|--------|------|--------------------------|------------------------|------------------|----------------------|----------------------|--------------------|----------------------|--------------------|-----------------------|---------------------|-----------------------|---------------------|
| Dec 10 | 49 | 828 | 813 | 661 | 831 | 1007 | 963 | 1007 | 974 | 1.00 | 1.18 | 1.25 | 1.23 |
| | 50 | 831 | 853 | 697 | 858 | 1062 | 977 | 1062 | 1003 | 1.03 | 1.15 | 1.19 | 1.22 |
| | 51 | 834 | 825 | 687 | 875 | 1082 | 962 | 1082 | 1016 | 1.05 | 1.17 | 1.21 | 1.20 |
| | 52 | 874 | 847 | 702 | 890 | 1096 | 965 | 1096 | 1057 | 1.02 | 1.14 | 1.25 | 1.21 |
| | 53 | 874 | 847 | 702 | 885 | 1157 | 984 | 1157 | 1135 | 1.01 | 1.16 | 1.24 | 1.21 |
| Jan 11 | 1 | 861 | 848 | 706 | 912 | 1173 | 1017 | 1173 | 1146 | 1.06 | 1.20 | 1.22 | 1.20 |
| | 2 | 871 | 869 | 732 | 935 | 1189 | 1035 | 1189 | 1167 | 1.07 | 1.19 | 1.19 | 1.19 |
| | 3 | 693 | 698 | 586 | 945 | 1257 | 1047 | 1257 | 1250 | 1.36 | 1.50 | 1.18 | 1.19 |
| | 4 | 848 | 854 | 725 | 952 | 1290 | 1075 | 1290 | 1349 | 1.12 | 1.26 | 1.17 | 1.18 |
| Feb 11 | 5 | 865 | 879 | 759 | 972 | 1263 | 1090 | 1263 | 1374 | 1.12 | 1.24 | 1.14 | 1.16 |
| | 6 | 874 | 870 | 755 | 960 | 1258 | 1079 | 1258 | 1354 | 1.10 | 1.24 | 1.16 | 1.15 |
| | 7 | 886 | 874 | 772 | 964 | 1302 | 1076 | 1302 | 1374 | 1.09 | 1.23 | 1.15 | 1.13 |
| | 8 | 771 | 947 | 820 | 992 | 1326 | 1086 | 1326 | 1422 | 1.29 | 1.15 | 0.94 | 1.15 |
| Mar 11 | 9 | 1016 | 987 | 862 | 1031 | 1262 | 1076 | 1262 | 1365 | 0.98 | 1.10 | 1.18 | 1.14 |
| | 10 | 1037 | 997 | 861 | 1038 | 1229 | 1065 | 1229 | 1318 | 0.99 | 1.08 | 1.20 | 1.16 |
| | 11 | 997 | 939 | 844 | 1041 | 1199 | 1043 | 1199 | 1267 | 1.04 | 1.13 | 1.18 | 1.11 |

Notes:(1) Premium Unleaded US Gulf Water Borne. (2) Premium Unleaded FOB. (3) All toluene and benzene prices are spot FOB.

Benzene Analysis

| Notes | Prices | | | Blend Values | | | | |
|--------|------------------|--------------|----------|---------------------------------|-----------|-------|----------------|------------|
| | Benzene Contract | Toluene Spot | MXY Spot | Toluene | Reformate | Pygas | Raffinate | |
| | €/t | \$/t | \$/t | \$/t | \$/t | \$/t | \$/t | \$/t |
| | Monthly | Nitration | | Based on 91 and 95 RON gasoline | | | from Reformate | from Pygas |
| 10 Nov | 703 | 940 | 1013 | 843 | 791 | 675 | 602 | 734 |
| Dec | 730 | 970 | 1009 | 835 | 863 | 745 | 686 | 815 |
| 11 Jan | 879 | 1043 | 1046 | 889 | 911 | 780 | 710 | 848 |
| Feb | 1001 | 1083 | 1076 | 924 | 946 | 808 | 734 | 877 |
| Mar | 1001 | 1056 | 1088 | 1025 | 1027 | 874 | 786 | 946 |
| | Averaged | | | | | | | |
| 10 Q2 | 831 | 870 | 863 | 794 | 776 | 654 | 579 | 704 |
| Q3 | 684 | 755 | 805 | 728 | 732 | 622 | 560 | 674 |
| Q4 | 700 | 914 | 996 | 836 | 817 | 699 | 630 | 760 |
| 11 Q1 | 960 | 1061 | 1070 | 946 | 962 | 821 | 743 | 891 |

| Notes | Margins | | | | | | | | | | | | | |
|--------|---|------|------------------|------|------------------------|------|----------|------|---------------------------------|------|-------------------|------|--|--|
| | Pygas ¹ | | | | Reformate ² | | | | HDA ³ | | | | | |
| | Benzene Extraction € per ton benzene | | | | | | | | BTX Extraction € per ton BTX | | € per ton benzene | | | |
| | Variable | Cash | Variable | Cash | Variable | Cash | Variable | Cash | Variable | Cash | Variable | Cash | | |
| | Pygas at Formula | | Pygas at Naphtha | | Pygas at Blend Value | | | | Toluene at Spot | | Toluene at BV | | | |
| 10 Nov | 72 | 55 | 44 | 27 | 222 | 205 | 96 | 87 | -98 | -121 | -10 | -33 | | |
| Dec | 25 | 8 | -39 | -57 | 129 | 111 | 60 | 50 | -70 | -94 | 59 | 35 | | |
| 11 Jan | 59 | 42 | 150 | 132 | 279 | 261 | 101 | 91 | 6 | -18 | 150 | 126 | | |
| Feb | 55 | 38 | 271 | 253 | 394 | 377 | 118 | 109 | 83 | 59 | 229 | 205 | | |
| Mar | 56 | 39 | 198 | 181 | 368 | 351 | 41 | 31 | 49 | 26 | 77 | 54 | | |
| 10 Q2 | 84 | 66 | 268 | 250 | 337 | 319 | 72 | 62 | 8 | -16 | 84 | 60 | | |
| Q3 | 40 | 22 | 118 | 100 | 181 | 163 | 31 | 21 | 1 | -23 | 27 | 3 | | |
| Q4 | 56 | 39 | 20 | 3 | 179 | 162 | 68 | 58 | -57 | -80 | 17 | -7 | | |
| 11 Q1 | 57 | 39 | 206 | 189 | 347 | 330 | 87 | 77 | 46 | 22 | 152 | 128 | | |

| Notes | Economics | | | | | | | | | | | |
|--------|---------------------------|------------|---------|-----|----------------|---------|-----|------------|---------|-----|--|--|
| | Pygas (€ per ton benzene) | | | | | | | | | | | |
| | Revenue | Feed Costs | | | Variable Costs | | | Cash Costs | | | | |
| | 4 | Formula | Naphtha | BV | Formula | Naphtha | BV | Formula | Naphtha | BV | | |
| 10 Nov | 703 | 602 | 631 | 453 | 631 | 659 | 481 | 648 | 676 | 481 | | |
| Dec | 730 | 672 | 737 | 569 | 705 | 769 | 601 | 722 | 787 | 601 | | |
| 11 Jan | 879 | 788 | 698 | 569 | 820 | 729 | 600 | 837 | 747 | 600 | | |
| Feb | 1001 | 915 | 699 | 575 | 946 | 730 | 607 | 963 | 748 | 607 | | |
| Mar | 1001 | 912 | 770 | 599 | 945 | 803 | 633 | 962 | 820 | 633 | | |
| 10 Q2 | 831 | 719 | 536 | 466 | 746 | 563 | 493 | 764 | 581 | 493 | | |
| Q3 | 684 | 616 | 538 | 474 | 644 | 566 | 503 | 662 | 584 | 503 | | |
| Q4 | 700 | 615 | 650 | 491 | 644 | 680 | 521 | 661 | 697 | 521 | | |
| 11 Q1 | 960 | 872 | 722 | 581 | 904 | 754 | 613 | 921 | 772 | 613 | | |

| Notes | Economics | | | | | | | | | | | |
|--------|---------------------------|-----------------|-------|------|---------|-------------------------|-------|------|------------------------|-------|------|--|
| | Reformate (€ per ton BTX) | | | | | HDA (€ per ton benzene) | | | | | | |
| | Revenue | Costs | | | Revenue | Costs | | | Costs | | | |
| | 4 | Variable | Fixed | Cash | 4 | Variable | Fixed | Cash | Variable | Fixed | Cash | |
| | | Toluene at Spot | | | | Toluene at Spot | | | Toluene at Blend Value | | | |
| 10 Nov | 519 | 422 | 10 | 432 | 703 | 802 | 23 | 824 | 713 | 23 | 736 | |
| Dec | 652 | 592 | 10 | 602 | 785 | 855 | 24 | 879 | 726 | 24 | 750 | |
| 11 Jan | 705 | 604 | 10 | 614 | 920 | 914 | 24 | 938 | 770 | 24 | 794 | |
| Feb | 735 | 617 | 10 | 626 | 1012 | 929 | 24 | 952 | 783 | 24 | 807 | |
| Mar | 674 | 633 | 10 | 643 | 933 | 884 | 23 | 907 | 856 | 23 | 879 | |
| 10 Q2 | 584 | 512 | 10 | 522 | 809 | 801 | 25 | 825 | 725 | 25 | 749 | |
| Q3 | 533 | 502 | 10 | 512 | 677 | 676 | 24 | 700 | 650 | 24 | 674 | |
| Q4 | 556 | 489 | 10 | 499 | 728 | 784 | 23 | 807 | 711 | 23 | 734 | |
| 11 Q1 | 705 | 618 | 10 | 628 | 955 | 909 | 24 | 933 | 803 | 24 | 826 | |

Benzene Derivatives

Cyclohexane

Phenol

| Notes | Cyclohexane | | | Hydrogen | | | Margins | | Cash Netback | | Phenol | Cumene | Margins | | Cash Netback | |
|--------|-------------|------------|------------------|----------|----------|------|-----------|-----------|--------------|-----------|----------|--------|-----------|-----------|--------------|--|
| | Contract | Delta | | | Variable | Cash | | Benzene | Spot | Cash Cost | Variable | Cash | | Benzene | | |
| | €/t | €/t | €/t | €/t | €/t | €/t | €/t (Ben) | €/t (Ben) | €/t | €/t | €/t | €/t | €/t (Ben) | €/t (Ben) | €/t (Ben) | |
| | Monthly | to Benzene | Fuel Value x 1.2 | | | | | | Distribution | | | | | | 5 | |
| 10 Nov | 840 | 137 | 1189 | 61 | 41 | 747 | 1107 | 820 | 312 | 240 | 969 | | | | | |
| Dec | 867 | 137 | 1358 | 51 | 34 | 766 | 1134 | 850 | 293 | 219 | 972 | | | | | |
| 11 Jan | 1022 | 143 | 1331 | 62 | 43 | 925 | 1313 | 988 | 338 | 267 | 1174 | | | | | |
| Feb | 1144 | 143 | 1342 | 64 | 44 | 1048 | 1435 | 1083 | 350 | 281 | 1311 | | | | | |
| Mar | 1144 | 143 | 1433 | 59 | 39 | 1043 | 1435 | 1110 | 344 | 276 | 1306 | | | | | |
| | Quarterly | | | | | | | | | | | | | | | |
| 10 Q2 | 969 | 138 | 1121 | 69 | 50 | 884 | 1240 | 926 | 344 | 267 | 1126 | | | | | |
| Q3 | 819 | 135 | 1178 | 60 | 42 | 728 | 1123 | 814 | 348 | 272 | 984 | | | | | |
| Q4 | 837 | 137 | 1232 | 58 | 39 | 741 | 1109 | 820 | 311 | 238 | 963 | | | | | |
| 11 Q1 | 1103 | 143 | 1368 | 62 | 42 | 1006 | 1394 | 1060 | 344 | 275 | 1264 | | | | | |

Styrene

Conventional - Typical Cost

POSM

Average Acquisition

Spot

| Notes | Styrene | | | Margins | | Cash Netback | | Styrene | | | Margins | | Styrene | | Margins | |
|--------|----------|----------|------|-----------|----------|--------------|------------------|----------|------|------|----------|------|---------|----------|---------|--|
| | Contract | Variable | Cash | Benzene | Variable | Cash | Ave. Acquisition | Variable | Cash | Spot | Variable | Cash | Spot | Variable | Cash | |
| | €/t | €/t | €/t | €/t (Ben) | €/t | €/t | €/t | €/t | €/t | \$/t | \$/t | \$/t | \$/t | \$/t | \$/t | |
| | Monthly | 8 | 8 | | 8 | 8 | | | | FOB | | | | | | |
| 10 Nov | 1045 | 11 | -24 | 673 | 363 | 263 | 921 | 23 | -13 | 1220 | 2 | -46 | | | | |
| Dec | 1080 | 0 | -36 | 684 | 374 | 270 | 951 | 12 | -25 | 1272 | 45 | -3 | | | | |
| 11 Jan | 1207 | -7 | -44 | 824 | 364 | 259 | 1071 | -10 | -46 | 1364 | -65 | -114 | | | | |
| Feb | 1305 | -23 | -59 | 928 | 337 | 234 | 1151 | -33 | -69 | 1470 | -133 | -182 | | | | |
| Mar | 1331 | -23 | -58 | 928 | 339 | 238 | 1184 | -24 | -59 | 1500 | -163 | -212 | | | | |
| | Averaged | | | | | | | | | | | | | | | |
| 10 Q2 | 1131 | -7 | -45 | 775 | 366 | 258 | 1017 | 26 | -11 | 1290 | 38 | -10 | | | | |
| Q3 | 990 | -18 | -55 | 615 | 360 | 254 | 879 | 0 | -38 | 1084 | -37 | -85 | | | | |
| Q4 | 1041 | 5 | -30 | 662 | 364 | 263 | 915 | 15 | -20 | 1241 | 31 | -17 | | | | |
| 11 Q1 | 1281 | -18 | -54 | 893 | 346 | 244 | 1135 | -23 | -58 | 1445 | -121 | -169 | | | | |

Styrene Derivatives

Polystyrene - Typical Cost

EPS

| Notes | Polystyrene | | Margins | | Cash Netback | | EPS | Margins | |
|--------|-------------|------|----------|------|--------------|----------|----------|---------|--|
| | Contract | Spot | Variable | Cash | Styrene | Contract | Variable | Cash | |
| | €/t | €/t | €/t | €/t | €/t (Str) | €/t | €/t | €/t | |
| | 7 | | 8 | 8 | | | 8 | 8 | |
| 10 Nov | 1310 | 1270 | 286 | 230 | 1144 | 1305 | 174 | 89 | |
| Dec | 1340 | 1290 | 281 | 224 | 1167 | 1310 | 139 | 52 | |
| 11 Jan | 1460 | 1400 | 268 | 211 | 1289 | 1400 | 102 | 15 | |
| Feb | 1540 | 1480 | 261 | 205 | 1370 | 1480 | 100 | 14 | |
| Mar | 1560 | 1510 | 255 | 200 | 1389 | 1515 | 109 | 25 | |
| | | | | | | | | | |
| 10 Q2 | 1280 | 1217 | 174 | 115 | 1101 | 1367 | 140 | 51 | |
| Q3 | 1210 | 1149 | 230 | 172 | 1037 | 1307 | 216 | 127 | |
| Q4 | 1303 | 1253 | 281 | 226 | 1136 | 1305 | 175 | 90 | |
| 11 Q1 | 1520 | 1463 | 261 | 205 | 1349 | 1465 | 104 | 18 | |

Xylenes Analysis

| Notes | MXY | | | Paraxylene | | | DMT | | | PTA | | | PET | | | |
|--------|------|----------|-------------|------------|--------|------------------|----------|--------|----------|----------|--------|----------|----------|--------|-----------|--|
| | Spot | Contract | Margin | Contract | Margin | Netback | Contract | Margin | Netback | Contract | Margin | Netback | Contract | Margin | Netback | |
| | \$/t | €/t | Cash €/t | €/t | €/t | PXE €/t (PXE) | €/t | €/t | €/t(PXE) | €/t | €/t | €/t(PXE) | €/t | €/t | €/t (PTA) | |
| | | Monthly | | | | | | | | | | | | | | |
| 10 Nov | 1013 | 928 | 126 | 896 | 76 | 1043 | 1048 | 35 | 973 | 1215 | 76 | 1135 | | | | |
| Dec | 1009 | 1030 | 142 | 965 | 71 | 1036 | 1137 | 19 | 949 | 1280 | 47 | 1190 | | | | |
| 11 Jan | 1046 | 1120 | 230 | 1041 | 68 | 1316 | 1214 | 28 | 1249 | 1350 | 45 | 1265 | | | | |
| Feb | 1076 | 1230 | 329 | 1116 | 68 | 1317 | 1308 | 28 | 1249 | 1490 | 118 | 1443 | | | | |
| Mar | 1088 | 1270 | 305 | 1143 | 71 | 1321 | 1342 | 25 | 1244 | 1570 | 157 | 1523 | | | | |
| | | Averaged | | | | | | | | | | | | | | |
| 10 Q2 | 863 | 840 | 11 | 826 | 71 | 954 | 972 | 35 | 892 | 1168 | 92 | 1078 | | | | |
| Q3 | 805 | 780 | -19 | 787 | 72 | 896 | 919 | 32 | 828 | 1110 | 85 | 1017 | | | | |
| Q4 | 996 | 921 | 95 | 891 | 74 | 1040 | 1042 | 30 | 966 | 1209 | 73 | 1126 | | | | |
| 11 Q1 | 1070 | 1207 | 288 | 1100 | 69 | 1318 | 1288 | 27 | 1247 | 1470 | 107 | 1411 | | | | |

| Notes | Orthoxylene | | | PAN | | | MEG | | Other |
|--------|--------------|-------------|------------------|----------|-------------|------------------|----------|-------------|---------------|
| | Contract | Margin | Netback | Contract | Margin | Netback | Contract | Margin | Exchange Rate |
| | €/t | Cash €/t | MXY €/t (MXY) | €/t | Cash €/t | OXE €/t (OXE) | €/t | Cash €/t | \$/€ |
| | Monthly | | | | | | | | |
| 10 Nov | 825 | 3 | 742 | 1045 | 138 | 969 | 905 | 223 | 1.371 |
| Dec | 875 | -13 | 750 | 1095 | 130 | 1010 | 975 | 198 | 1.321 |
| 11 Jan | 875 | -26 | 758 | 1095 | 131 | 1012 | 1035 | 362 | 1.335 |
| Feb | 900 | -15 | 774 | 1105 | 121 | 1026 | 1070 | 428 | 1.365 |
| Mar | 945 | -52 | 732 | 1140 | 112 | 1061 | 1130 | 422 | 1.388 |
| | 13. Averaged | | | | | | | | |
| 10 Q2 | 825 | -2 | 675 | 1013 | 101 | 930 | 849 | 246 | 1.276 |
| Q3 | 800 | 27 | 650 | 1015 | 123 | 929 | 775 | 187 | 1.290 |
| Q4 | 830 | -7 | 726 | 1050 | 135 | 970 | 895 | 193 | 1.360 |
| 11 Q1 | 907 | -31 | 755 | 1113 | 121 | 1033 | 1078 | 404 | 1.363 |

NOTES AND DEFINITIONS FOR ECONOMIC MODELS

Definitions

Revenue = Value of product (ex-works) to producer.

Variable Costs = Feedstock(s), utilities, packaging, storage, catalyst and chemicals less co-credits.

Fixed Costs = Maintenance, insurance, local taxes overheads, labour, sales, administration and working capital charge.

Margin = Revenue (as above) less costs

Contract = Published reference price

Spot = European average price

Netback = Value of feedstock assuming zero margin, based on cash or variable margin.

Notes

All contract prices are on a delivered basis before discounts.

- Pygas extraction economics are based on benzene only at contract value.
- Reformate extraction economics are based on benzene at contract and toluene and mixed xylene at spot. Raffinate credit applied at market value.
- HDA economics are based on benzene at spot.
- Revenue is calculated on all products including raffinate.
- Phenol Margins are based on distribution market business and assume an integrated production with zeolite technology.
- Propylene Oxide price is calculated using a fixed delta to propylene.
- GP Crystal
- Margin net of discounts.
- Black Injection Molding Grade.
- Oil Extended SBR. 27% by weight oil.
- Polymer grade.
- SBR economics are based on a 1512.

| 2011 West Europe Benzene Operating Schedule (000 Metric Tons) Annual Capacity | | | | | | | | | | | | | | | |
|--|-------------------|--------------------|--------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Company | Location | Process | Capacity | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
| AP Feyzin | Feyzin | Pygas | 110 | - | - | - | - | - | - | - | - | - | - | - | - |
| Arsol Aromatics | Gelsenkirchen | Coke Oven | 220 | - | - | - | - | - | - | - | - | - | - | - | - |
| BASF SE | Mannheim | Pygas | 150 | - | - | - | 6 | 6 | - | - | - | - | - | - | - |
| | Mannheim | HDA | 150 | - | - | - | - | - | - | - | - | - | - | - | - |
| BASF Antwerp | Antwerp | Pygas | 225 | - | - | - | - | - | - | - | - | - | - | - | - |
| Bitmac | Llanwern | Coke Oven | 26 | - | - | - | - | - | - | - | - | - | - | - | - |
| Borealis Poly | Porvoo | Reformate/Pygas | 150 | - | - | - | - | - | - | - | - | - | - | - | - |
| BP | Lingen | HDA | 50 | - | - | - | - | - | - | - | - | - | - | - | - |
| | Lingen | Reformate | 30 | - | - | - | - | - | - | - | - | - | - | - | - |
| | Geel | Disproportionation | 60 | - | - | - | - | - | - | - | - | - | - | - | - |
| CEPSA | Huelva, HL | Reformate | 220 | - | - | 19 | - | - | - | - | - | - | - | - | - |
| | Huelva, HL | HDA | 125 | - | - | - | - | - | - | - | - | - | - | - | - |
| | Huelva, HL | Reformate | 20 | - | - | - | - | - | - | - | - | - | - | - | - |
| | Algeciras, LD | Disproportionation | 80 | - | - | - | - | - | - | - | - | - | - | - | - |
| | Algeciras, LD | Reformate | 220 | - | - | - | - | - | - | - | - | - | - | - | - |
| ConocoPhillips | Immingham | HDA | 80 | - | - | - | - | - | - | - | - | - | - | - | - |
| | Immingham | Reformate | 120 | - | - | - | - | - | - | - | - | - | - | - | - |
| Deutsche Shell | Godorf | Reformate/Pygas | 600 | - | - | - | - | - | - | - | - | - | - | - | - |
| Dow Benelux | Terneuzen | HDA | 300 | 25 | 12 | - | - | - | - | - | - | - | - | - | - |
| | Terneuzen | Pygas | 600 | - | - | 16 | 16 | - | - | - | - | - | - | - | - |
| Dow | Bohlen | Pygas/HDA | 302 | - | - | - | - | - | - | - | - | - | - | - | - |
| ExxonMobil | Botlek | Disproportionation | 120 | - | - | - | - | - | - | - | - | - | - | - | - |
| | Botlek | Pygas | 300 | - | - | - | - | - | - | - | - | - | - | - | - |
| | Botlek | Reformate | 365 | - | - | - | - | - | - | - | - | - | - | - | - |
| FAO | Antwerp | Pygas | 185 | - | - | - | - | - | - | - | - | - | - | - | - |
| Gexaro | Lavera | Pygas | 230 | - | - | - | - | - | - | - | - | - | - | - | - |
| Holborn | Hamburg | Reformate | 65 | - | - | - | - | - | - | - | - | - | - | - | - |
| Ineos | Grangemouth | Pygas | 250 | - | - | - | - | - | - | - | 21 | - | - | - | - |
| | Dormagen | Pygas | 240 | - | - | - | - | - | - | - | - | - | - | - | - |
| OMV | Burghausen | Pygas | 165 | - | - | - | 3 | 14 | 3 | - | - | - | - | - | - |
| PCK Schwedt | Schwedt | Reformate | 65 | - | - | - | - | - | - | - | - | 1 | 1 | - | - |
| PETROGAL | Oporto | Reformate | 65 | - | - | - | - | - | - | - | - | - | - | - | - |
| Polimeri Europa | Sarroch, Cagliari | Reformate | 50 | - | - | - | - | - | - | - | - | - | - | - | - |
| | Priolo | Disproportionation | 80 | - | - | - | - | - | - | - | - | - | - | - | - |
| | Priolo | Reformate/Pygas | 360 | - | - | - | - | - | - | - | - | - | - | - | - |
| | Porto Marghera | Pygas | 110 | - | 4 | 9 | 4 | - | - | - | - | - | - | - | - |
| Raffinerie Heide | Heide | Reformate | 85 | - | - | 2 | 5 | - | - | - | - | - | - | - | - |
| Repsol Quimica | Tarragona, TG | Pygas | 190 | - | - | - | - | - | - | - | - | - | - | - | - |
| | Puertollano, LD | Pygas/HDA | 115 | - | - | - | - | - | - | - | - | - | - | - | - |
| Ruetgerswerke | Zelzate | Coke Oven | 105 | - | - | - | - | - | - | - | - | - | - | - | - |
| Ruhr Oel | Gelsenkirchen | HDA | 86 | - | - | - | - | - | - | - | - | - | - | - | - |
| | Gelsenkirchen | Pygas | 233 | - | - | - | - | - | - | - | - | - | - | - | - |
| | Gelsenkirchen | Reformate | 56 | - | - | - | - | - | - | - | - | - | - | - | - |
| SABIC Europe | North Tees | Pygas | 195 | - | - | - | - | - | - | - | - | - | - | - | - |
| | Geleen | Pygas | 320 | - | - | 12 | 12 | - | - | - | - | - | - | - | - |
| Shell Chem UK | Stanlow | Reformate/Pygas | 250 | - | - | - | - | - | - | - | - | - | - | - | - |
| Shell Chem Neth | Moerdijk | Reformate/Pygas | 500 | - | - | - | - | - | - | - | - | - | - | - | - |
| Shell & DEA Oil | Wesseling | Pygas | 180 | - | - | - | - | - | - | - | - | 10 | 10 | - | - |
| Syndial | Porto Torres | Pygas | 160 | - | - | - | - | - | - | - | - | - | - | - | - |
| Total PC | Gonfreville | Pygas | 200 | - | - | - | - | - | - | - | - | 4 | 17 | 4 | - |
| | Gonfreville | Reformate | 140 | - | - | - | - | - | - | - | - | - | - | - | - |
| | Carling | Pygas/HDA | 100 | - | - | - | - | - | - | - | - | - | - | - | - |
| | Carling | Pygas | 200 | - | - | - | - | - | - | - | - | - | - | - | - |
| | Antwerp | Reformate | 250 | - | - | - | - | - | - | - | - | - | - | - | - |
| West Europe Capacity | | | 9,853 | 837 | 756 | 837 | 810 | 837 | 810 | 837 | 837 | 810 | 837 | 810 | 837 |
| West Europe Lost | | | 239 | 25 | 16 | 59 | 47 | 20 | 3 | - | 21 | 15 | 29 | 4 | - |
| West Europe Lost: Others/Estimates | | | 50 | 6 | 6 | 27 | 11 | - | - | - | - | - | - | - | - |
| West Europe % Capacity Lost | | | 2.9% | 4% | 3% | 10% | 7% | 2% | 0% | 0% | 3% | 2% | 3% | 0% | 0% |

Where necessary CMAI has estimated operations. Capacities are prorated for new plants/expansions.



| 2011 Middle East Benzene Operating Schedule (000 Metric Tons) Annual Capacity | | | | | | | | | | | | | | | |
|--|------------------|--------------------|--------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Company | Location | Process | Capacity | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
| Abadan PC | Abadan | Coke Oven | 4 | - | - | - | - | - | - | - | - | - | - | - | - |
| Aradat | Baiji | Reformate/HDA | 30 | - | - | - | - | - | - | - | - | - | - | - | - |
| Bandar Imam PC | Bandar Imam | HDA | 150 | - | - | - | - | - | - | - | - | - | - | - | - |
| | Bandar Imam | Reformate/Pygas | 80 | - | - | - | - | - | - | - | - | - | - | - | - |
| Borzuyeh PC | Bandar Assaluyeh | Disproportionation | 130 | - | - | - | - | - | - | - | - | - | - | - | - |
| | Bandar Assaluyeh | Reformate | 300 | - | - | - | - | - | - | - | - | - | - | - | - |
| Bou Ali Sina PC | Bandar Imam | Disproportionation | 80 | - | - | - | - | - | - | - | - | - | - | - | - |
| | Bandar Imam | Reformate | 100 | - | - | - | - | - | - | - | - | - | - | - | - |
| Erdemir | Eregli | Coke Oven | 5 | - | - | - | - | - | - | - | - | - | - | - | - |
| Esfahan PC | Esfahan | Reformate/HDA | 56 | - | - | - | - | - | - | - | - | - | - | - | - |
| Gadiv | Haifa | Disproportionation | 55 | - | - | - | - | - | - | - | - | - | - | - | - |
| | Haifa | Reformate/Pygas | 100 | - | - | - | - | - | - | - | - | - | - | - | - |
| Ibn Rushd | Yanbu | Disproportionation | 175 | - | 1 | 11 | - | - | - | - | - | - | - | - | - |
| | Yanbu | Reformate | 175 | - | 1 | 11 | - | - | - | - | - | - | - | - | - |
| Karabak Steel | Karabak | Coke Oven | 18 | - | - | - | - | - | - | - | - | - | - | - | - |
| KARO | Shuaiba | Disproportionation | 75 | - | - | - | - | - | - | - | - | - | - | - | - |
| | Shuaiba | Reformate/Pygas | 250 | - | - | - | - | - | - | - | - | - | - | - | - |
| Kayan | Al Jubail | Pygas | 110 | - | - | - | - | - | - | - | - | - | - | - | - |
| Oman Oil Co JV | Sohar | Disproportionation | 210 | - | - | 7 | - | - | - | - | - | - | - | - | - |
| Petkim | Aliaga, Izmir | Disproportionation | 23 | - | - | - | - | - | - | - | - | - | - | - | - |
| | Aliaga, Izmir | Reformate/Pygas | 111 | - | - | - | - | - | - | - | - | - | - | - | - |
| Petrokemya | Al Jubail | Pygas/HDA | 100 | - | - | - | - | - | - | - | - | - | - | - | - |
| | Al Jubail | Pygas/HDA | 130 | - | - | - | - | - | - | - | - | - | - | - | - |
| Qatar Petroleum | Mesaieed | Pygas | 36 | - | - | - | - | - | - | - | - | - | - | - | - |
| SASREF | Al Jubail | HDA | 300 | - | - | - | 25 | - | - | - | - | - | - | - | - |
| Saudi ChevPhill | Al Jubail | Pygas | 65 | - | - | - | - | - | - | - | - | - | - | - | - |
| | Al Jubail | Reformate | 780 | - | - | - | - | - | - | - | - | - | - | - | - |
| Tabriz PC | Tabriz | Pygas | 55 | - | - | - | - | - | - | - | - | - | - | - | - |
| Yansab | Yanbu | Pygas | 200 | - | - | - | - | - | - | - | - | - | - | - | - |
| Middle East Capacity | | | 3,903 | 331 | 299 | 331 | 321 | 331 | 321 | 331 | 331 | 321 | 331 | 321 | 331 |
| Middle East Lost | | | 56 | - | 3 | 28 | 25 | - | - | - | - | - | - | - | - |
| Middle East Lost: Others/Estimates | | | 69 | 28 | 20 | 21 | - | - | - | - | - | - | - | - | - |
| Middle East % Capacity Lost | | | 3.2% | 9% | 8% | 15% | 8% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |

| 2011 West Europe Toluene Operating Schedule (000 Metric Tons) Annual Capacity | | | | | | | | | | | | | | | |
|--|----------------|---------------------|--------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Company | Location | Process | Capacity | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
| AP Feyzin | Feyzin | Pygas | 40 | - | - | - | - | - | - | - | - | - | - | - | - |
| Aquila | Trieste | Reformate - Extract | 15 | - | - | - | - | - | - | - | - | - | - | - | - |
| Arsol Aromatics | Gelsenkirchen | Coal | 30 | - | - | - | - | - | - | - | - | - | - | - | - |
| BASF SE | Mannheim | Reformate - Extract | 85 | - | - | - | - | - | - | - | - | - | - | - | - |
| | Ludwigshafen | Styrene | 22 | - | - | - | - | - | - | - | - | - | - | - | - |
| Bitmac | Llanwern | Coal | 5 | - | - | - | - | - | - | - | - | - | - | - | - |
| BP | Lingen | Reformate - Extract | 55 | - | - | - | - | - | - | - | - | - | - | - | - |
| CEPSA | Huelva, HL | Reformate - Extract | 150 | - | - | 13 | - | - | - | - | - | - | - | - | - |
| | Algeciras, LD | Reformate - Extract | 175 | - | - | - | - | - | - | - | - | - | - | - | - |
| Deutsche Shell | Godorf | Reformate/ Pygas | 140 | - | - | - | - | - | - | - | - | - | - | - | - |
| Dow | Bohlen | Pygas | 75 | - | - | - | - | - | - | - | - | - | - | - | - |
| ExxonMobil | Botlek | Reformate/ Pygas | 260 | - | - | - | - | - | - | - | - | - | - | - | - |
| FAO | Antwerp | Pygas | 65 | - | - | - | - | - | - | - | - | - | - | - | - |
| Ineos | Marl | Styrene | 14 | - | - | - | - | - | - | - | - | - | - | - | - |
| | Dormagen | Pygas | 110 | - | - | - | - | - | - | - | - | - | - | - | - |
| PCK Schwedt | Schwedt | Reformate - Extract | 52 | - | - | - | - | - | - | - | - | - | - | - | - |
| PETROGAL | Oporto | Reformate - Extract | 155 | - | - | - | - | - | - | - | - | - | - | - | - |
| Polimeri Europa | Priolo | Pygas | 160 | - | - | - | - | - | - | - | - | - | - | - | - |
| | Priolo | Reformate - Extract | 80 | - | - | - | - | - | - | - | - | - | - | - | - |
| | Porto Marghera | Pygas | 50 | - | - | - | - | - | - | - | - | - | - | - | - |
| | Mantova | Styrene | 24 | - | - | - | - | - | - | - | - | - | - | - | - |
| Raffinerie Heide | Heide | Reformate - Extract | 125 | - | - | 3 | 7 | - | - | - | - | - | - | - | - |
| Ruetgerswerke | Zelzate | Coal | 10 | - | - | - | - | - | - | - | - | - | - | - | - |
| Ruhr Oel | Gelsenkirchen | Reformate/ Pygas | 180 | - | - | - | - | - | - | - | - | - | - | - | - |
| Shell Chem UK | Stanlow | Reformate/ Pygas | 80 | - | - | - | - | - | - | - | - | - | - | - | - |
| Shell & DEA Oil | Wesseling | Reformate/ Pygas | 100 | - | - | - | - | - | - | - | - | 4 | 4 | - | - |
| Styron | Terneuzen | Styrene | 20 | - | - | - | - | - | - | - | - | - | - | - | - |
| | Schkopau | Styrene | 11 | - | - | - | - | - | - | - | - | - | - | - | - |
| Styrolution | Antwerp | Styrene | 20 | - | - | - | - | - | - | - | - | - | - | - | - |
| Syndial | Porto Torres | Pygas | 70 | - | - | - | - | - | - | - | - | - | - | - | - |
| Total PC | Gonfreville | Styrene | 16 | - | - | - | - | - | - | - | - | - | - | - | - |
| | Gonfreville | Reformate - Extract | 40 | - | - | - | - | - | - | - | - | - | - | - | - |
| West Europe Capacity | | | 2,434 | 207 | 187 | 207 | 200 | 207 | 200 | 207 | 207 | 200 | 207 | 200 | 207 |
| West Europe Lost | | | 31 | - | - | 16 | 7 | - | - | - | - | 4 | 4 | - | - |
| West Europe Lost: Others/Estimates | | | - | - | - | - | - | - | - | - | - | - | - | - | - |
| West Europe % Capacity Lost | | | 1.3% | 0% | 0% | 8% | 4% | 0% | 0% | 0% | 0% | 2% | 2% | 0% | 0% |

**2011 West Europe Cumene Operating Schedule
(000 Metric Tons) Annual Capacity**

| Company | Location | Process | Capacity | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|---|---------------|--------------------------|--------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| AGIP SpA | Priolo | Phosphoric acid - RGC3 | 280 | - | - | - | - | - | - | - | - | - | - | - | - |
| Borealis Poly | Porvoo | Zeolite - RGC3 | 245 | - | - | - | - | - | - | - | - | - | - | - | - |
| CEPSA Quimica | Huelva, HL | Zeolite - CGC3 | 295 | - | - | 25 | - | - | - | - | - | - | - | - | - |
| | Huelva, HL | Zeolite - CGC3 | 300 | - | - | - | - | - | - | - | - | - | - | - | - |
| DOMO Chemicals | Leuna | Zeolite - RGC3 | 207 | - | - | - | - | 4 | 8 | - | - | - | - | - | - |
| Dow Benelux | Terneuzen | Zeolite - CGC3 | 700 | - | - | - | - | - | - | - | - | - | - | - | - |
| Ineos | Marl | Aluminum chloride - CGC3 | 260 | - | - | - | - | - | - | - | - | - | - | - | - |
| NOVACAP | Roussillon | Zeolite - CGC3 | 230 | - | - | - | - | - | - | - | - | - | - | - | - |
| Ruhr Oel | Gelsenkirchen | Phosphoric acid - RGC3 | 500 | - | - | - | - | - | - | - | - | - | - | - | - |
| West Europe Capacity | | | 3,017 | 256 | 231 | 256 | 248 | 256 | 248 | 256 | 256 | 248 | 256 | 248 | 256 |
| West Europe Lost | | | 37 | - | - | 25 | - | 4 | 8 | - | - | - | - | - | - |
| West Europe Lost: Others/Estimates | | | 22 | - | - | 13 | - | - | - | - | 9 | - | - | - | - |
| West Europe % Capacity Lost | | | 2% | 0% | 0% | 15% | 0% | 2% | 3% | 0% | 3% | 0% | 0% | 0% | 0% |

**2011 West Europe Phenol Operating Schedule
(000 Metric Tons) Annual Capacity**

| Company | Location | Process | Capacity | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|---|------------|---------|--------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Borealis Poly | Porvoo | Cumene | 190 | - | - | - | - | - | - | - | - | - | - | - | - |
| CEPSA Quimica | Huelva, HL | Cumene | 200 | - | - | 17 | - | - | - | - | - | - | - | - | - |
| | Huelva, HL | Cumene | 210 | - | - | - | - | - | - | - | - | - | - | - | - |
| DOMO Chemicals | Leuna | Cumene | 150 | - | - | - | - | 3 | 6 | - | - | - | - | - | - |
| Ineos Phenol | Gladbeck | Cumene | 660 | - | - | - | - | - | - | - | - | - | - | - | - |
| | Antwerp | Cumene | 445 | - | - | - | - | - | - | - | - | - | - | - | - |
| | Antwerp | Cumene | 235 | - | - | - | - | - | - | - | - | - | - | - | - |
| NOVACAP | Roussillon | Cumene | 30 | - | - | - | - | - | - | - | - | - | - | - | - |
| | Roussillon | Cumene | 125 | - | - | - | - | - | - | - | - | - | - | - | - |
| Polimeri Europa | Mantova | Cumene | 300 | - | - | - | - | - | 8 | 25 | - | - | - | - | - |
| West Europe Capacity | | | 2,545 | 216 | 195 | 216 | 209 | 216 | 209 | 216 | 216 | 209 | 216 | 209 | 216 |
| West Europe Lost | | | 59 | - | - | 17 | - | 3 | 14 | 25 | - | - | - | - | - |
| West Europe Lost: Others/Estimates | | | 62 | - | - | - | - | - | - | - | 6 | 56 | - | - | - |
| West Europe % Capacity Lost | | | 5% | 0% | 0% | 8% | 0% | 1% | 7% | 12% | 3% | 27% | 0% | 0% | 0% |

**2011 West Europe Cyclohexane Operating Schedule
(000 Metric Tons) Annual Capacity**

| Company | Location | Process | Capacity | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|---|---------------|--------------|--------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| BASF SE | Ludwigshafen | Benzene Hyd. | 130 | - | - | - | - | - | - | - | - | - | - | - | - |
| BP | Lingen | Benzene Hyd. | 260 | - | - | - | - | - | - | - | - | - | - | - | - |
| CEPSA | Huelva, HL | Benzene Hyd. | 90 | - | - | - | - | - | - | - | - | - | - | - | - |
| | Huelva, HL | Benzene Hyd. | 95 | - | - | - | - | - | - | - | - | - | - | - | - |
| ExxonMobil | Botlek | Benzene Hyd. | 280 | - | - | - | - | - | - | - | - | - | - | - | - |
| FAO | Antwerp | Benzene Hyd. | 90 | - | - | - | - | - | - | - | - | - | - | - | - |
| Holborn | Hamburg | Benzene Hyd. | 60 | - | - | - | - | - | - | - | - | - | - | - | - |
| Ruhr Oel | Gelsenkirchen | Benzene Hyd. | 150 | - | - | - | - | - | - | - | - | - | - | - | - |
| SABIC Europe | North Tees | Benzene Hyd. | 195 | - | - | - | - | - | - | - | - | - | - | - | - |
| | North Tees | Benzene Hyd. | 135 | - | - | - | - | - | - | - | - | - | - | - | - |
| West Europe Capacity | | | 1,485 | 126 | 114 | 126 | 122 | 126 | 122 | 126 | 126 | 122 | 126 | 122 | 126 |
| West Europe Lost | | | - | - | - | - | - | - | - | - | - | - | - | - | - |
| West Europe Lost: Others/Estimates | | | - | - | - | - | - | - | - | - | - | - | - | - | - |
| West Europe % Capacity Lost | | | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |

**2011 West Europe Orthoxylene Operating Schedule
(000 Metric Tons) Annual Capacity**

| Company | Location | Process | Capacity | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|---|--------------------|------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| BP RP | Gelsenkirchen | OXE | 70 | - | - | - | - | - | - | - | - | - | - | - | - |
| CEPSA | Algeciras, LD | OXE | 35 | - | - | - | - | - | - | - | - | - | - | - | - |
| ExxonMobil | Botlek | OXE | 135 | - | - | - | - | - | - | - | - | - | - | - | - |
| PCK Schwedt | Schwedt | OXE | 40 | - | - | - | - | - | - | - | - | - | - | - | - |
| PETROGAL | Leca da Palmeira | OXE | 50 | - | - | - | - | - | - | - | - | - | - | - | - |
| Polimeri Europa | Sarroch, Cagliari | OXE | 100 | - | - | - | - | - | - | - | - | - | - | - | - |
| Shell Oil | Wesseling | OXE | 60 | - | - | - | - | - | - | - | - | - | - | - | - |
| Total PC | Gonfreville | OXE | 115 | - | - | - | - | - | - | - | - | - | - | - | - |
| West Europe Capacity | | | 605 | 51 | 46 | 51 | 50 | 51 | 50 | 51 | 51 | 50 | 51 | 50 | 51 |
| West Europe Lost | | | - | - | - | - | - | - | - | - | - | - | - | - | - |
| West Europe Lost: Others/Estimates | | | 5 | - | - | 3 | 2 | - | - | - | - | - | - | - | - |
| West Europe % Capacity Lost | | | 0.8% | 0% | 0% | 6% | 3% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |

**2011 Middle East Orthoxylene Operating Schedule
(000 Metric Tons) Annual Capacity**

| Company | Location | Process | Capacity | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|------------------------------------|------------------|---------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Borzuyeh PC | Bandar Assaluyeh | OXE | 100 | - | - | - | - | - | - | - | - | - | - | - | - |
| Bou Ali Sina PC | Bandar Imam | OXE | 30 | - | - | - | - | - | - | - | - | - | - | - | - |
| Esfahan PC | Esfahan | OXE | 22 | - | - | - | - | - | - | - | - | - | - | - | - |
| Gadiv | Haifa | OXE | 50 | - | - | - | - | - | - | - | - | - | - | - | - |
| Petkim | Aliaga, Izmir | OXE | 46 | - | - | - | - | - | - | - | - | - | - | - | - |
| Middle East Capacity | | | 248 | 21 | 19 | 21 | 20 | 21 | 20 | 21 | 21 | 20 | 21 | 20 | 21 |
| Middle East Lost | | | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Middle East % Capacity Lost | | | 0.0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |

**2011 West Europe Paraxylene Operating Schedule
(000 Metric Tons) Annual Capacity**

| Company | Location | Process | Capacity | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|---|--------------------|----------------------|--------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| BP | Geel | Amoco | 600 | - | - | - | - | - | - | - | - | - | - | - | - |
| CEPSA | Algeciras, LD | Parex (Light) | 100 | - | - | - | - | - | - | - | - | - | - | - | - |
| Deutsche Shell | Wesseling | Parex (Heavy) | 140 | - | - | - | - | - | - | - | - | - | - | - | - |
| ExxonMobil | Botlek | Other | 140 | - | - | - | - | - | - | - | - | - | - | - | - |
| | Botlek | Parex (Heavy) | 580 | - | - | - | - | - | - | - | - | - | - | - | - |
| PCK Schwedt | Schwedt | Amoco | 60 | - | - | - | - | - | - | - | - | - | - | - | - |
| PETROGAL | Leca da Palmeira | Parex (Heavy) | 125 | - | - | - | - | - | - | - | - | - | - | - | - |
| Polimeri Europa | Sarroch, Cagliari | Other | 100 | - | - | - | - | - | - | - | - | - | - | - | - |
| Ruhr Oel | Gelsenkirchen | Parex (Heavy) | 190 | - | - | - | - | - | - | - | - | - | - | - | - |
| Total PC | Gonfreville | Parex (Light) | 135 | - | - | - | - | - | - | - | - | - | - | - | - |
| West Europe Capacity | | | 2,170 | 184 | 166 | 184 | 178 | 184 | 178 | 184 | 184 | 178 | 184 | 178 | 184 |
| West Europe Lost | | | - | - | - | - | - | - | - | - | - | - | - | - | - |
| West Europe Lost: Others/Estimates | | | 12 | - | - | 12 | - | - | - | - | - | - | - | - | - |
| West Europe % Capacity Lost | | | 0.5% | 0% | 0% | 6% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |

**2011 Middle East Paraxylene Operating Schedule
(000 Metric Tons) Annual Capacity**

| Company | Location | Process | Capacity | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|--|------------------|---------------|--------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Bandar Imam PC | Bandar Imam | Eluxyl | 180 | 15 | 14 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 |
| Borzuyeh PC | Bandar Assaluyeh | Eluxyl | 750 | - | - | - | - | - | - | - | - | - | - | - | - |
| Bou Ali Sina PC | Bandar Imam | Eluxyl | 400 | - | - | - | - | - | - | - | - | - | - | - | - |
| Esfahan PC | Esfahan | Parex (Heavy) | 44 | - | - | - | - | - | - | - | - | - | - | - | - |
| Gadiv | Haifa | Parex (Heavy) | 175 | - | - | - | - | - | - | - | - | - | - | - | - |
| Ibn Rushd | Yanbu | Parex (Heavy) | 386 | - | 3 | 23 | - | - | - | - | - | - | - | - | - |
| KARO | Shuaiba | Parex (Heavy) | 822 | - | - | - | - | - | - | - | - | - | - | - | - |
| Oman Oil Co JV | Sohar | Eluxyl | 790 | - | - | 26 | - | - | - | - | - | - | - | - | - |
| Petkim | Aliaga, Izmir | Parex (Heavy) | 139 | - | - | - | - | - | - | - | - | - | - | - | - |
| Middle East Capacity | | | 3,686 | 313 | 283 | 313 | 303 | 313 | 303 | 313 | 313 | 303 | 313 | 303 | 313 |
| Middle East Lost | | | 232 | 15 | 17 | 65 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 |
| Middle East Lost: Other/Estimates | | | 147 | 63 | 44 | 40 | - | - | - | - | - | - | - | - | - |
| Middle East % Capacity Lost | | | 10.3% | 25% | 22% | 33% | 5% | 5% | 5% | 5% | 5% | 5% | 5% | 5% | 5% |

Where necessary CMAI has estimated operations. Capacities are prorated for new plants/expansions.

| 2011 West Europe Styrene Operating Schedule (000 Metric Tons) | | | | | | | | | | | | | | | |
|--|--------------------|-----------------|--------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Company | Location | Process | Capacity | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
| BELGIUM | | | | | | | | | | | | | | | |
| Styrolution | Antwerp | Monsanto/Lummus | 240 | - | - | - | - | - | - | - | - | - | - | - | - |
| | Antwerp | Other | 200 | - | - | - | - | - | - | - | - | - | - | - | - |
| | Antwerp | Other | 60 | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Belgium | | | 500 | - | - | - | - | - | - | - | - | - | - | - | - |
| FRANCE | | | | | | | | | | | | | | | |
| Total PC | Gonfreville | Monsanto/Lummus | 600 | - | - | - | - | - | - | - | - | - | - | - | - |
| Total France | | | 600 | - | - | - | - | - | - | - | - | - | - | - | - |
| GERMANY | | | | | | | | | | | | | | | |
| BASF SE | Ludwigshafen | Badger/Fina | 550 | - | - | - | - | - | - | - | - | - | - | - | - |
| Ineos | Marl | Monsanto/Lummus | 170 | - | - | - | - | - | - | - | - | - | - | - | - |
| | Marl | Monsanto/Lummus | 180 | - | - | - | - | - | - | - | - | - | - | - | - |
| Styron | Schkopau | Other | 300 | - | - | - | - | - | - | - | - | - | - | - | |
| Total Germany | | | 1,200 | - | - | - | - | - | - | - | - | - | - | - | - |
| ITALY | | | | | | | | | | | | | | | |
| Polimeri Europa | Mantova | Badger/Fina | 150 | - | - | - | - | 6 | 12 | 6 | - | - | - | - | - |
| | Mantova | Other | 445 | - | - | - | - | 17 | 37 | 17 | - | - | - | - | - |
| Total Italy | | | 595 | - | - | - | - | 23 | 49 | 23 | - | - | - | - | - |
| NETHERLANDS | | | | | | | | | | | | | | | |
| Eilba | Moerdijk | SM/PO process | 550 | - | - | - | - | - | - | - | - | - | - | - | - |
| Lyondell/Bayer | Rotterdam | SM/PO process | 700 | - | - | - | - | - | - | - | - | - | - | - | - |
| SABIC Europe | Geleen | Other | 27 | - | - | - | - | - | - | - | - | - | - | - | - |
| Shell Chem Neth | Moerdijk | SM/PO process | 440 | - | - | - | - | - | - | - | - | - | - | - | - |
| Styron | Terneuzen | Other | 500 | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Netherlands | | | 2,217 | - | - | - | - | - | - | - | - | - | - | - | - |
| SPAIN | | | | | | | | | | | | | | | |
| Repsoil Quimica | Tarragona, TG | SM/PO process | 450 | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Spain | | | 450 | - | - | - | - | - | - | - | - | - | - | - | - |
| UNITED KINGDOM | | | | | | | | | | | | | | | |
| Polimeri Europa | Hythe, Southampton | Badger/Fina | 60 | - | - | - | - | - | - | - | - | - | - | - | - |
| Total United Kingdom | | | 60 | - | - | - | - | - | - | - | - | - | - | - | - |
| West European Capacity | | | 5,622 | 477 | 431 | 477 | 462 | 477 | 462 | 477 | 477 | 462 | 477 | 462 | 477 |
| West European Capacity Lost | | | 95 | - | - | - | - | 23 | 49 | 23 | - | - | - | - | - |
| West European Capacity Lost: Others/Estimates | | | 171 | 8 | 23 | 5 | 5 | 5 | 5 | 5 | 24 | 24 | 56 | 5 | 5 |
| West European % Capacity Lost | | | 4.7% | 2% | 5% | 1% | 1% | 6% | 12% | 6% | 5% | 5% | 12% | 1% | 1% |

| 2011 Middle East Styrene Operating Schedule (000 Metric Tons) | | | | | | | | | | | | | | | |
|--|------------------|-----------------|--------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Company | Location | Process | Capacity | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
| IRAN | | | | | | | | | | | | | | | |
| Pars PC | Bandar Assaluyeh | Other | 600 | - | - | - | - | - | - | - | - | - | - | - | - |
| Tabriz PC | Tabriz | Other | 95 | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Iran | | | 695 | - | - | - | - | - | - | - | - | - | - | - | - |
| KUWAIT | | | | | | | | | | | | | | | |
| TKSC | Shuaiba | Other | 475 | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Kuwait | | | 475 | - | - | - | - | - | - | - | - | - | - | - | - |
| SAUDI ARABIA | | | | | | | | | | | | | | | |
| Jubail ChevPhill | Al Jubail | Monsanto/Lummus | 775 | - | - | - | - | - | - | - | - | - | - | - | - |
| SADAF | Al Jubail | Badger/Fina | 600 | - | - | - | - | - | - | - | - | - | - | - | - |
| | Al Jubail | Monsanto/Lummus | 550 | - | - | - | - | 47 | - | - | - | - | - | - | - |
| Total Saudi Arabia | | | 1,925 | - | - | - | - | 47 | - | - | - | - | - | - | - |
| Middle East Capacity | | | 3,095 | 263 | 237 | 263 | 254 | 263 | 254 | 263 | 263 | 254 | 263 | 254 | 263 |
| Middle East Capacity Lost | | | 47 | - | - | - | - | 47 | - | - | - | - | - | - | - |
| Middle East Capacity Lost: Others/Estimates | | | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Middle East % Capacity Lost | | | 2% | 0% | 0% | 0% | 0% | 18% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |

WEST EUROPE - QUARTERLY BENZENE BALANCE

(000 Metric Tonnes)

| | 2010 | | | | 2011 | | | | 2012 | | | | 2010 | 2011 | 2012 | AAGR (%) | |
|-------------------------|--------|------|------|------|----------|------|------|------|------|------|------|------|----------|------|------|----------|-------|
| | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | | | | 10-11 | 11-12 |
| | Actual | | | | Forecast | | | | | | | | Forecast | | | | |
| Capacity | | | | | | | | | | | | | | | | | |
| Nameplate | 2430 | 2457 | 2483 | 2483 | 2430 | 2457 | 2483 | 2483 | 2457 | 2457 | 2483 | 2483 | 9853 | 9853 | 9880 | 0.0 | 0.3 |
| Effective | 2257 | 2233 | 2362 | 2338 | 2430 | 2457 | 2483 | 2483 | 2457 | 2457 | 2483 | 2483 | 9190 | 9853 | 9880 | 7.2 | 0.3 |
| Operating Rate % | | | | | | | | | | | | | | | | | |
| Nameplate | 80.3 | 76.7 | 76.9 | 79.9 | 78.5 | 77.6 | 76.1 | 75.7 | 74.0 | 76.8 | 76.4 | 73.4 | 78.4 | 77.0 | 75.1 | | |
| Effective | 86.5 | 84.4 | 80.8 | 84.8 | 78.5 | 77.6 | 76.1 | 75.7 | 74.0 | 76.8 | 76.4 | 73.4 | 84.1 | 77.0 | 75.1 | | |
| Production | | | | | | | | | | | | | | | | | |
| Pygas | 1188 | 1218 | 1249 | 1245 | 1231 | 1169 | 1191 | 1210 | 1161 | 1071 | 1156 | 1160 | 4900 | 4800 | 4547 | -2.0 | -5.3 |
| Ref. | 461 | 474 | 495 | 450 | 451 | 500 | 500 | 450 | 445 | 495 | 500 | 450 | 1880 | 1901 | 1890 | 1.1 | -0.6 |
| HDA/TPA | 246 | 135 | 107 | 231 | 167 | 178 | 138 | 159 | 151 | 260 | 181 | 153 | 718 | 641 | 746 | -10.6 | 16.2 |
| Coke Ov | 57 | 57 | 58 | 58 | 59 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 230 | 240 | 241 | 4.3 | 0.3 |
| Total Production | 1951 | 1885 | 1909 | 1983 | 1908 | 1906 | 1890 | 1879 | 1817 | 1886 | 1897 | 1824 | 7728 | 7583 | 7423 | -1.9 | -2.1 |
| Imports | 134 | 205 | 268 | 168 | 180 | 250 | 250 | 210 | 316 | 316 | 320 | 320 | 774 | 890 | 1272 | 15.0 | 42.9 |
| Total Supply | 2085 | 2089 | 2176 | 2151 | 2088 | 2156 | 2140 | 2089 | 2133 | 2202 | 2217 | 2144 | 8502 | 8473 | 8695 | -0.3 | 2.6 |
| DEMAND | | | | | | | | | | | | | | | | | |
| Alkylbenzene | 54 | 55 | 55 | 55 | 57 | 57 | 58 | 58 | 58 | 58 | 58 | 58 | 220 | 230 | 232 | 4.5 | 0.9 |
| Chlorobenzene | 15 | 15 | 16 | 16 | 15 | 15 | 16 | 16 | 15 | 15 | 16 | 16 | 62 | 62 | 62 | 0.0 | 0.0 |
| Cumene | 470 | 444 | 477 | 484 | 469 | 490 | 432 | 443 | 473 | 490 | 467 | 458 | 1875 | 1834 | 1890 | -2.2 | 3.0 |
| Cyclohexane | 236 | 238 | 239 | 239 | 242 | 246 | 258 | 245 | 247 | 250 | 261 | 246 | 951 | 990 | 1005 | 4.1 | 1.5 |
| Ethylbenzene | 959 | 992 | 1033 | 984 | 941 | 979 | 1004 | 956 | 950 | 999 | 1021 | 972 | 3967 | 3880 | 3943 | -2.2 | 1.6 |
| Maleic Anhydride | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 |
| Nitrobenzene | 252 | 255 | 257 | 257 | 278 | 281 | 284 | 284 | 302 | 302 | 305 | 305 | 1021 | 1126 | 1213 | 10.3 | 7.7 |
| Others | 62 | 62 | 63 | 63 | 62 | 62 | 63 | 63 | 62 | 62 | 63 | 63 | 250 | 250 | 251 | 0.0 | 0.3 |
| Domestic Demand | 2047 | 2061 | 2140 | 2098 | 2063 | 2131 | 2114 | 2064 | 2108 | 2177 | 2192 | 2118 | 8347 | 8373 | 8595 | 0.3 | 2.7 |
| Exports | 38 | 28 | 36 | 53 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 155 | 100 | 100 | -35.6 | 0.3 |
| Total Demand | 2085 | 2089 | 2176 | 2151 | 2088 | 2156 | 2140 | 2089 | 2133 | 2202 | 2217 | 2144 | 8502 | 8473 | 8695 | -0.3 | 2.6 |
| Inventory Change | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |

WEST EUROPE - QUARTERLY STYRENE BALANCE

000 METRIC TONNES

| | 2010 | | | | 2011 | | | | 2012 | | | | 2010 | 2011 | 2012 | AAGR (%) | |
|-------------------------|--------|------|------|------|----------|------|------|------|------|------|------|------|----------|------|------|----------|-------|
| | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | | | | 10-11 | 11-12 |
| | Actual | | | | Forecast | | | | | | | | Forecast | | | | |
| Capacity | | | | | | | | | | | | | | | | | |
| Nameplate | 1386 | 1402 | 1417 | 1417 | 1386 | 1402 | 1417 | 1417 | 1386 | 1402 | 1417 | 1417 | 5622 | 5622 | 5622 | 0.0 | 0.0 |
| Effective | 1305 | 1290 | 1345 | 1353 | 1350 | 1315 | 1341 | 1351 | 1386 | 1402 | 1417 | 1417 | 5293 | 5356 | 5622 | 1.2 | 5.0 |
| Oper. Rate % | | | | | | | | | | | | | | | | | |
| Nameplate | 82.3 | 84.8 | 87.8 | 83.0 | 81.5 | 84.0 | 85.3 | 81.0 | 82.2 | 85.8 | 86.8 | 82.4 | 84.5 | 82.9 | 84.3 | | |
| Effective | 87.4 | 92.2 | 92.5 | 87.0 | 83.7 | 89.5 | 90.1 | 85.0 | 82.2 | 85.8 | 86.8 | 82.4 | 89.8 | 87.1 | 84.3 | | |
| Production | | | | | | | | | | | | | | | | | |
| EB | 681 | 746 | 738 | 680 | 630 | 686 | 707 | 659 | 629 | 701 | 717 | 668 | 2845 | 2682 | 2715 | -5.7 | 1.2 |
| POSM | 460 | 443 | 505 | 497 | 499 | 491 | 502 | 489 | 510 | 502 | 512 | 500 | 1906 | 1981 | 2024 | 3.9 | 2.2 |
| Total | 1141 | 1189 | 1244 | 1177 | 1129 | 1177 | 1208 | 1148 | 1139 | 1203 | 1229 | 1168 | 4750 | 4663 | 4739 | -1.8 | 1.6 |
| Imports | 118 | 199 | 168 | 151 | 139 | 213 | 178 | 162 | 150 | 203 | 173 | 162 | 635 | 693 | 689 | 9.1 | -0.6 |
| Total Supply | 1259 | 1388 | 1411 | 1327 | 1268 | 1391 | 1387 | 1310 | 1290 | 1406 | 1403 | 1330 | 5386 | 5356 | 5428 | -0.6 | 1.3 |
| DEMAND | | | | | | | | | | | | | | | | | |
| PSE | 449 | 507 | 509 | 472 | 466 | 502 | 504 | 465 | 460 | 495 | 497 | 459 | 1936 | 1936 | 1911 | 0.0 | -1.3 |
| EPS | 287 | 350 | 343 | 321 | 290 | 354 | 346 | 324 | 296 | 361 | 353 | 329 | 1300 | 1315 | 1338 | 1.1 | 1.8 |
| ABS | 80 | 89 | 104 | 107 | 81 | 90 | 105 | 108 | 82 | 92 | 106 | 110 | 380 | 384 | 390 | 1.0 | 1.5 |
| SAN | 13 | 14 | 16 | 15 | 13 | 14 | 16 | 15 | 13 | 14 | 16 | 16 | 57 | 58 | 59 | 1.0 | 1.5 |
| SBR | 29 | 27 | 27 | 30 | 31 | 28 | 28 | 32 | 33 | 30 | 29 | 33 | 113 | 119 | 125 | 5.3 | 5.0 |
| SBL | 116 | 119 | 113 | 116 | 123 | 129 | 117 | 116 | 123 | 129 | 117 | 116 | 464 | 485 | 485 | 4.5 | 0.0 |
| UPE | 43 | 40 | 40 | 38 | 44 | 41 | 42 | 39 | 45 | 42 | 42 | 40 | 160 | 166 | 169 | 3.8 | 1.8 |
| Others | 156 | 179 | 165 | 148 | 160 | 184 | 170 | 152 | 163 | 188 | 173 | 155 | 648 | 665 | 678 | 2.6 | 2.0 |
| Domestic Demand | 1172 | 1325 | 1315 | 1247 | 1208 | 1343 | 1327 | 1251 | 1214 | 1351 | 1334 | 1256 | 5059 | 5128 | 5155 | 1.4 | 0.5 |
| Exports | 87 | 63 | 96 | 81 | 61 | 48 | 60 | 59 | 76 | 55 | 69 | 73 | 326 | 228 | 273 | -30.2 | 19.8 |
| TOTAL DEMAND | 1259 | 1388 | 1411 | 1327 | 1268 | 1391 | 1387 | 1310 | 1290 | 1406 | 1403 | 1330 | 5386 | 5356 | 5428 | -0.6 | 1.3 |
| Inventory Change | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |

WEST EUROPE - QUARTERLY CUMENE BALANCE

(000 Metric Tonnes)

| | 2010 | | | | 2011 | | | | 2012 | | | | 2010 | 2011 | 2012 | AAGR (%) | | |
|--------|------------------|------|------|------|----------|-------|-------|------|------|------|-------|------|----------|------|------|----------|-------|-----|
| | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | | | | 10-11 | 11-12 | |
| SUPPLY | Actual | | | | Forecast | | | | | | | | Forecast | | | | | |
| | Capacity | | | | | | | | | | | | | | | | | |
| | Nameplate | 744 | 752 | 760 | 760 | 744 | 752 | 760 | 760 | 744 | 752 | 760 | 760 | 3017 | 3017 | 3017 | 0.0 | 0.0 |
| | Effective | 744 | 685 | 746 | 760 | 705 | 740 | 752 | 760 | 744 | 752 | 760 | 760 | 2935 | 2958 | 3017 | 0.8 | 2.0 |
| | Oper. Rate % | | | | | | | | | | | | | | | | | |
| | Nameplate | 96.1 | 90.9 | 96.5 | 96.9 | 97.0 | 100.3 | 87.4 | 89.7 | 97.9 | 100.3 | 94.5 | 92.8 | 95.1 | 93.5 | 96.4 | | |
| | Effective | 96.1 | 99.8 | 98.4 | 96.9 | 102.2 | 101.9 | 88.4 | 89.7 | 97.9 | 100.3 | 94.5 | 92.8 | 97.8 | 95.4 | 96.4 | | |
| | Production | 715 | 683 | 734 | 737 | 721 | 754 | 665 | 682 | 728 | 754 | 719 | 705 | 2869 | 2822 | 2907 | -1.7 | 3.0 |
| | Imports | 25 | 75 | 71 | 34 | 54 | 64 | 78 | 64 | 61 | 70 | 85 | 69 | 206 | 260 | 285 | 26.2 | 9.6 |
| | Total Supply | 741 | 759 | 805 | 771 | 775 | 818 | 743 | 746 | 789 | 824 | 804 | 774 | 3075 | 3082 | 3192 | 0.2 | 3.6 |
| DEMAND | Phenol | 722 | 741 | 785 | 753 | 756 | 799 | 725 | 728 | 772 | 807 | 786 | 1013 | 3000 | 3008 | 3122 | 0.2 | 3.8 |
| | Others | 14 | 14 | 14 | 14 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 19 | 58 | 58 | 58 | 1.0 | 0.0 |
| | Domestic Demand | 736 | 755 | 799 | 767 | 770 | 813 | 740 | 743 | 786 | 821 | 801 | 1033 | 3058 | 3066 | 3180 | 0.3 | 3.7 |
| | Exports | 4 | 3 | 6 | 4 | 5 | 5 | 3 | 3 | 3 | 3 | 3 | 4 | 17 | 16 | 12 | | |
| | Total Demand | 741 | 759 | 805 | 771 | 775 | 818 | 743 | 746 | 789 | 824 | 804 | 1037 | 3075 | 3082 | 3192 | 0.2 | 3.6 |
| | Inventory Change | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |

WEST EUROPE - QUARTERLY PHENOL BALANCE

000 METRIC TONNES

| | 2010 | | | | 2011 | | | | 2012 | | | | 2010 | 2011 | 2012 | AAGR (%) | | |
|--------------|------------------|------|------|------|----------|------|------|------|------|------|------|------|----------|------|------|----------|-------|------|
| | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | | | | 10-11 | 11-12 | |
| SUPPLY | Actual | | | | Forecast | | | | | | | | Forecast | | | | | |
| | Capacity | | | | | | | | | | | | | | | | | |
| | Nameplate | 628 | 635 | 641 | 641 | 628 | 635 | 641 | 641 | 628 | 635 | 641 | 641 | 2545 | 2545 | 2545 | 0.0 | 0.0 |
| | Effective | 628 | 568 | 631 | 641 | 611 | 618 | 554 | 641 | 628 | 635 | 641 | 641 | 2468 | 2424 | 2545 | -1.8 | 5.0 |
| | Oper. Rate % | | | | | | | | | | | | | | | | | |
| | Nameplate | 85.2 | 86.5 | 90.6 | 86.9 | 89.2 | 93.2 | 83.7 | 84.1 | 91.1 | 94.2 | 90.8 | 87.4 | 87.3 | 87.5 | 90.9 | | |
| | Effective | 85.2 | 96.6 | 92.1 | 86.9 | 91.7 | 95.8 | 96.9 | 84.1 | 91.1 | 94.2 | 90.8 | 87.4 | 90.1 | 91.9 | 90.9 | | |
| | Production | | | | | | | | | | | | | | | | | |
| | Cumene | 535 | 549 | 581 | 558 | 560 | 592 | 537 | 539 | 572 | 598 | 582 | 561 | 2223 | 2228 | 2312 | 0.2 | 3.8 |
| | Total Production | 535 | 549 | 581 | 558 | 560 | 592 | 537 | 539 | 572 | 598 | 582 | 561 | 2223 | 2228 | 2312 | 0.2 | 3.8 |
| Imports | 30 | 27 | 22 | 22 | 20 | 22 | 65 | 33 | 24 | 24 | 24 | 24 | 100 | 140 | 96 | 39.5 | -31.4 | |
| Total Supply | 565 | 576 | 603 | 579 | 580 | 614 | 602 | 572 | 596 | 622 | 606 | 585 | 2323 | 2368 | 2408 | 1.9 | 1.7 | |
| DEMAND | Alkylphenol | 24 | 26 | 29 | 28 | 25 | 27 | 30 | 28 | 25 | 27 | 30 | 28 | 108 | 109 | 111 | 1.0 | 2.0 |
| | Bisphenol-A | 227 | 231 | 229 | 205 | 235 | 239 | 236 | 214 | 247 | 243 | 238 | 225 | 892 | 923 | 953 | 3.5 | 3.2 |
| | Nylon/CHX | 153 | 148 | 143 | 148 | 148 | 143 | 139 | 143 | 146 | 140 | 136 | 140 | 592 | 573 | 562 | -3.3 | -1.8 |
| | PPO/OX | 27 | 27 | 27 | 27 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 108 | 111 | 113 | 3.1 | 1.1 |
| | Phenolic Resins | 85 | 105 | 108 | 97 | 88 | 108 | 111 | 100 | 90 | 111 | 114 | 103 | 395 | 407 | 418 | 2.9 | 2.7 |
| | Others | 16 | 18 | 18 | 17 | 16 | 18 | 18 | 17 | 17 | 19 | 19 | 17 | 69 | 70 | 72 | 1.6 | 2.1 |
| | Domestic Demand | 534 | 556 | 554 | 521 | 540 | 563 | 561 | 529 | 553 | 569 | 565 | 542 | 2165 | 2193 | 2228 | 1.3 | 1.6 |
| | Exports | 31 | 21 | 48 | 58 | 40 | 51 | 41 | 43 | 43 | 53 | 41 | 43 | 158 | 175 | 180 | 10.5 | 2.9 |
| | Total Demand | 565 | 576 | 603 | 579 | 580 | 614 | 602 | 572 | 596 | 622 | 606 | 585 | 2323 | 2368 | 2408 | 1.9 | 1.7 |
| | Inventory Change | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |



WEST EUROPE - QUARTERLY POLYSTYRENE BALANCE

000 Metric Tons

| | 2010 | | | | 2011 | | | | 2012 | | | | 2010 | 2011 | 2012 | AAGR (%) | | |
|------------------|--------------------------|------|------|------|-----------------|------|------|------|------|------|------|------|-----------------|------|------|----------|--------|------|
| | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | | | | '10-11 | '11-12 | |
| SUPPLY | Actual | | | | Forecast | | | | | | | | Forecast | | | | | |
| | Capacity | 549 | 555 | 561 | 561 | 549 | 555 | 561 | 581 | 581 | 581 | 581 | 581 | 2227 | 2247 | 2307 | 0.9 | 2.7 |
| | Oper. Rate % | | | | | | | | | | | | | | | | | |
| | Nameplate | 84.3 | 94.1 | 93.5 | 86.6 | 87.5 | 93.2 | 92.5 | 82.4 | 82.7 | 89.0 | 88.4 | 81.5 | 89.6 | 88.8 | 85.4 | | |
| Production | 463 | 522 | 525 | 486 | 480 | 518 | 519 | 479 | 474 | 511 | 513 | 473 | 1996 | 1996 | 1970 | 0.0 | -1.3 | |
| Imports | 29 | 32 | 30 | 27 | 29 | 32 | 32 | 28 | 32 | 36 | 35 | 32 | 118 | 121 | 135 | 3.0 | 11.4 | |
| Total Supply | 491 | 554 | 555 | 514 | 509 | 550 | 551 | 508 | 507 | 547 | 548 | 504 | 2114 | 2117 | 2105 | 0.2 | -0.6 | |
| DEMAND | Packaging | 218 | 224 | 225 | 206 | 221 | 221 | 222 | 203 | 219 | 218 | 219 | 201 | 872 | 867 | 856 | -0.6 | -1.3 |
| | Electronics / Appliances | 38 | 47 | 46 | 45 | 41 | 46 | 46 | 45 | 41 | 46 | 46 | 44 | 176 | 178 | 177 | 1.1 | -0.9 |
| | Other | 149 | 182 | 189 | 170 | 162 | 183 | 189 | 170 | 166 | 188 | 194 | 175 | 691 | 704 | 723 | 1.9 | 2.7 |
| | Domestic Demand | 406 | 453 | 460 | 422 | 425 | 450 | 457 | 419 | 426 | 451 | 459 | 420 | 1740 | 1750 | 1756 | 0.6 | 0.4 |
| | Exports | 86 | 101 | 95 | 92 | 85 | 100 | 94 | 89 | 81 | 95 | 89 | 84 | 374 | 368 | 349 | -1.7 | -4.9 |
| | Total Demand | 491 | 554 | 555 | 514 | 509 | 550 | 551 | 508 | 507 | 547 | 548 | 504 | 2114 | 2117 | 2105 | 0.2 | -0.6 |
| Inventory Change | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |

WEST EUROPE - QUARTERLY CYCLOHEXANE BALANCE

000 METRIC TONNES

| | 2010 | | | | 2011 | | | | 2012 | | | | 2010 | 2011 | 2012 | AAGR (%) | | |
|------------------|-----------------|------|------|------|-----------------|------|------|------|------|------|------|------|-----------------|------|------|----------|-------|------|
| | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | | | | 10-11 | 11-12 | |
| SUPPLY | Actual | | | | Forecast | | | | | | | | Forecast | | | | | |
| | Capacity | | | | | | | | | | | | | | | | | |
| | Nameplate | 366 | 370 | 374 | 374 | 366 | 370 | 374 | 374 | 359 | 363 | 366 | 367 | 1485 | 1485 | 1455 | 0.0 | -2.0 |
| | Effective | 366 | 362 | 369 | 374 | 366 | 370 | 374 | 374 | 359 | 363 | 366 | 367 | 1472 | 1485 | 1455 | 0.9 | -2.0 |
| Oper. Rate % | | | | | | | | | | | | | | | | | | |
| Nameplate | 66.4 | 66.2 | 65.7 | 65.7 | 71.0 | 71.6 | 74.0 | 70.3 | 74.1 | 74.1 | 76.8 | 72.2 | 66.0 | 71.7 | 74.3 | | | |
| Effective | 66.4 | 67.6 | 66.6 | 65.7 | 71.0 | 71.6 | 74.0 | 70.3 | 74.1 | 74.1 | 76.8 | 72.2 | 66.6 | 71.7 | 74.3 | | | |
| Production | 243 | 245 | 246 | 246 | 260 | 265 | 277 | 263 | 266 | 269 | 281 | 265 | 980 | 1065 | 1081 | 8.7 | 1.5 | |
| Imports | 109 | 113 | 107 | 82 | 90 | 92 | 80 | 90 | 90 | 90 | 80 | 90 | 411 | 352 | 350 | -14.4 | -0.6 | |
| Total Supply | 352 | 358 | 353 | 328 | 350 | 357 | 357 | 353 | 356 | 359 | 361 | 355 | 1391 | 1417 | 1431 | 1.9 | 1.0 | |
| DEMAND | Adipic Acid | 107 | 108 | 105 | 90 | 94 | 100 | 100 | 98 | 100 | 101 | 102 | 100 | 410 | 392 | 403 | -4.4 | 2.8 |
| | Caprolactam | 142 | 142 | 144 | 137 | 160 | 160 | 162 | 160 | 159 | 160 | 160 | 160 | 565 | 642 | 639 | 13.6 | -0.5 |
| | Cyclohexanone | 41 | 36 | 41 | 41 | 36 | 37 | 37 | 36 | 37 | 38 | 38 | 36 | 159 | 146 | 149 | -8.2 | 2.1 |
| | Others | 20 | 17 | 20 | 20 | 17 | 18 | 18 | 17 | 17 | 18 | 18 | 17 | 77 | 70 | 70 | -9.1 | 0.0 |
| | Domestic Demand | 310 | 303 | 310 | 288 | 307 | 315 | 317 | 311 | 313 | 317 | 318 | 313 | 1211 | 1250 | 1261 | 3.2 | 0.9 |
| | Exports | 42 | 55 | 43 | 40 | 43 | 42 | 40 | 42 | 43 | 42 | 43 | 42 | 180 | 167 | 170 | -7.2 | 1.8 |
| | TOTAL DEMAND | 352 | 358 | 353 | 328 | 350 | 357 | 357 | 353 | 356 | 359 | 361 | 355 | 1391 | 1417 | 1431 | 1.9 | 1.0 |
| Inventory Change | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |

WEST EUROPE - QUARTERLY ORTHOXYLENE BALANCE

000 METRIC TONNES

| | 2010 | | | | 2011 | | | | 2012 | | | | 2010 | 2011 | 2012 | AAGR (%) | | |
|------------------|-----------------|-----|-----|-----|-----------------|-----|-----|-----|------|-----|-----|-----|-----------------|------|------|----------|-------|-------|
| | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | | | | 10-11 | 11-12 | |
| SUPPLY | Actual | | | | Forecast | | | | | | | | Forecast | | | | | |
| | Capacity | | | | | | | | | | | | | | | | | |
| | Nameplate | 149 | 151 | 152 | 152 | 149 | 151 | 152 | 152 | 142 | 142 | 143 | 143 | 605 | 605 | 570 | 0.0 | -5.8 |
| | Effective | 134 | 144 | 144 | 140 | 146 | 149 | 152 | 152 | 142 | 142 | 143 | 143 | 562 | 600 | 570 | 6.8 | -5.0 |
| Operating Rate % | | | | | | | | | | | | | | | | | | |
| Nameplate | 77 | 78 | 79 | 77 | 78 | 82 | 80 | 77 | 81 | 86 | 81 | 80 | 78 | 79 | 82 | | | |
| Effective | 86 | 82 | 83 | 84 | 80 | 83 | 80 | 77 | 81 | 86 | 81 | 80 | 84 | 80 | 82 | | | |
| Production | 115 | 118 | 120 | 118 | 116 | 124 | 122 | 117 | 115 | 122 | 116 | 115 | 471 | 479 | 468 | 1.7 | -2.3 | |
| Imports | 21 | 21 | 15 | 21 | 18 | 22 | 18 | 18 | 18 | 18 | 18 | 18 | 78 | 76 | 72 | -2.6 | -5.3 | |
| Total Supply | 136 | 139 | 135 | 139 | 134 | 146 | 140 | 135 | 133 | 140 | 134 | 133 | 549 | 555 | 540 | 1.1 | -2.7 | |
| DEMAND | PAN | 119 | 131 | 120 | 124 | 123 | 137 | 128 | 123 | 124 | 132 | 126 | 125 | 494 | 511 | 507 | 3.4 | -0.8 |
| | Other | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 |
| | Domestic Demand | 119 | 131 | 120 | 124 | 123 | 137 | 128 | 123 | 124 | 132 | 126 | 125 | 494 | 511 | 507 | 3.4 | -0.8 |
| | Exports | 17 | 8 | 15 | 15 | 11 | 9 | 12 | 12 | 9 | 8 | 8 | 8 | 55 | 44 | 33 | -20.0 | -25.0 |
| | Total Demand | 136 | 139 | 135 | 139 | 134 | 146 | 140 | 135 | 133 | 140 | 134 | 133 | 549 | 555 | 540 | 1.1 | -2.7 |
| Inventory Change | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |

WEST EUROPE - QUARTERLY PARAXYLENE BALANCE

000 METRIC TONNES

| | 2010 | | | | 2011 | | | | 2012 | | | | 2010 | 2011 | 2012 | AAGR (%) | | |
|---------------------|-------------------------|------|------|------|-----------------|------|------|------|-----------------|------|------|------|------|------|------|----------|-------|------|
| | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | | | | 10-11 | 11-12 | |
| SUPPLY | Actual | | | | Forecast | | | | Forecast | | | | | | | | | |
| | Capacity | | | | | | | | | | | | | | | | | |
| | Nameplate | 535 | 541 | 547 | 547 | 535 | 541 | 547 | 547 | 540 | 540 | 545 | 545 | 2170 | 2170 | 2170 | 0.0 | 0.0 |
| | Effective | 510 | 536 | 526 | 492 | 535 | 541 | 547 | 547 | 540 | 540 | 545 | 545 | 2064 | 2170 | 2170 | 5.1 | 0.0 |
| | Oper. Rate % | | | | | | | | | | | | | | | | | |
| | Nameplate | 85.4 | 87.3 | 93.0 | 79.1 | 67.9 | 90.2 | 94.9 | 85.5 | 76.5 | 91.4 | 96.3 | 92.4 | 86.2 | 84.7 | 89.2 | | |
| Effective | 89.6 | 88.1 | 96.7 | 87.9 | 67.9 | 90.2 | 94.9 | 85.5 | 76.5 | 91.4 | 96.3 | 92.4 | 90.6 | 84.7 | 89.2 | | | |
| Production | 457 | 472 | 509 | 432 | 363 | 488 | 519 | 467 | 413 | 493 | 525 | 504 | 1870 | 1838 | 1935 | -1.7 | 5.3 | |
| Imports | 26 | 36 | 27 | 35 | 30 | 30 | 30 | 30 | 20 | 40 | 40 | 20 | 124 | 120 | 120 | -3.2 | 0.2 | |
| Total Supply | 483 | 508 | 536 | 467 | 393 | 518 | 549 | 498 | 433 | 533 | 566 | 524 | 1994 | 1958 | 2056 | -1.8 | 5.0 | |
| DEMAND | PTA | 355 | 445 | 477 | 409 | 326 | 450 | 486 | 444 | 380 | 480 | 512 | 471 | 1686 | 1706 | 1843 | 1.2 | 8.0 |
| | DMT | 52 | 53 | 53 | 53 | 52 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 212 | 212 | 213 | 0.2 | 0.3 |
| | Domestic Demand | 407 | 498 | 531 | 462 | 378 | 503 | 539 | 498 | 433 | 533 | 566 | 524 | 1898 | 1918 | 2056 | 1.1 | 7.2 |
| | Exports | 76 | 10 | 5 | 5 | 15 | 15 | 10 | 0 | 0 | 0 | 0 | 0 | 96 | 40 | 0 | -58.5 | n.a. |
| | Total Demand | 483 | 508 | 536 | 467 | 393 | 518 | 549 | 498 | 433 | 533 | 566 | 524 | 1994 | 1958 | 2056 | -1.8 | 5.0 |
| | Inventory Change | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |

WEST EUROPE - QUARTERLY PTA BALANCE

000 METRIC TONNES

| | 2010 | | | | 2011 | | | | 2012 | | | | 2010 | 2011 | 2012 | AAGR (%) | | |
|---------------------|-------------------------|------|-------|------|-----------------|------|-------|------|-----------------|------|------|------|------|------|------|----------|-------|------|
| | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | | | | 10-11 | 11-12 | |
| SUPPLY | Actual | | | | Forecast | | | | Forecast | | | | | | | | | |
| | Capacity | | | | | | | | | | | | | | | | | |
| | Nameplate | 636 | 763 | 771 | 771 | 755 | 763 | 771 | 771 | 935 | 935 | 945 | 945 | 2942 | 3060 | 3760 | 4.0 | 22.9 |
| | Effective | 585 | 702 | 710 | 710 | 694 | 702 | 710 | 710 | 860 | 860 | 870 | 870 | 2706 | 2815 | 3459 | 4.0 | 22.9 |
| | Operating Rate % | | | | | | | | | | | | | | | | | |
| | Nameplate | 74.4 | 85.0 | 93.5 | 80.8 | 64.9 | 88.7 | 94.8 | 86.6 | 61.1 | 77.2 | 81.5 | 74.9 | 83.8 | 83.8 | 73.7 | | |
| Effective | 80.8 | 92.4 | 101.6 | 87.8 | 70.5 | 96.4 | 103.0 | 94.1 | 66.4 | 84.0 | 88.6 | 81.4 | 91.1 | 91.1 | 80.1 | | | |
| Production | 473 | 649 | 721 | 623 | 490 | 677 | 731 | 668 | 571 | 722 | 770 | 708 | 2466 | 2565 | 2771 | 4.0 | 8.0 | |
| Imports | 62 | 43 | 40 | 45 | 50 | 50 | 50 | 50 | 49 | 49 | 50 | 50 | 190 | 200 | 199 | 5.0 | -0.5 | |
| Total Supply | 535 | 692 | 761 | 668 | 540 | 727 | 781 | 718 | 621 | 772 | 820 | 758 | 2656 | 2765 | 2970 | 4.1 | 7.4 | |
| DEMAND | Polyester | 356 | 512 | 572 | 488 | 421 | 557 | 611 | 548 | 453 | 603 | 650 | 588 | 1929 | 2136 | 2294 | 10.8 | 7.4 |
| | Domestic Demand | 356 | 512 | 572 | 488 | 421 | 557 | 611 | 548 | 453 | 603 | 650 | 588 | 1929 | 2136 | 2294 | 10.8 | 7.4 |
| | Exports | 179 | 180 | 189 | 180 | 119 | 170 | 170 | 170 | 168 | 168 | 170 | 170 | 728 | 629 | 676 | -13.6 | 7.5 |
| | Total Demand | 535 | 692 | 761 | 668 | 540 | 727 | 781 | 718 | 621 | 772 | 820 | 758 | 2656 | 2765 | 2970 | 4.1 | 7.4 |
| | Inventory Change | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |

WEST EUROPE - QUARTERLY PET RESIN BALANCE

000 METRIC TONNES

| | 2010 | | | | 2011 | | | | 2012 | | | | 2010 | 2011 | 2012 | AAGR (%) | | |
|-------------------------|------------------------|------|------|------|-----------------|------|------|------|-----------------|------|------|------|-------|-------|-------|----------|-------|------|
| | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | | | | 10-11 | 11-12 | |
| SUPPLY | Actual | | | | Forecast | | | | Forecast | | | | | | | | | |
| | Capacity | | | | | | | | | | | | | | | | | |
| | Nameplate | 519 | 562 | 568 | 568 | 556 | 562 | 568 | 568 | 609 | 609 | 616 | 616 | 2,217 | 2,254 | 2,444 | 1.7 | 8.4 |
| | Oper. Rate % | | | | | | | | | | | | | | | | | |
| | Nameplate | 55.1 | 80.3 | 94.0 | 79.6 | 56.1 | 79.9 | 90.0 | 77.3 | 56.1 | 78.7 | 86.7 | 74.9 | 77.7 | 75.9 | 74.4 | | |
| | Production | 286 | 451 | 534 | 452 | 312 | 449 | 511 | 439 | 342 | 480 | 534 | 462 | 1,723 | 1,712 | 1,817 | -0.7 | 6.2 |
| Recycle | 50 | 55 | 63 | 54 | 57 | 63 | 72 | 62 | 64 | 71 | 82 | 70 | 222 | 253 | 288 | 13.8 | 13.8 | |
| Imports | 315 | 255 | 190 | 177 | 255 | 246 | 183 | 171 | 232 | 224 | 167 | 156 | 937 | 856 | 779 | -8.6 | -9.0 | |
| Total Supply | 650 | 761 | 787 | 684 | 623 | 758 | 767 | 672 | 639 | 775 | 783 | 688 | 2,882 | 2,821 | 2,885 | -2.1 | 2.3 | |
| DEMAND | Beverage (Min, Iso) | 230 | 277 | 290 | 250 | 227 | 281 | 294 | 253 | 230 | 285 | 298 | 257 | 1,048 | 1,056 | 1,070 | 0.8 | 1.3 |
| | CSD | 211 | 268 | 268 | 215 | 206 | 270 | 270 | 217 | 208 | 273 | 273 | 219 | 962 | 963 | 973 | 0.1 | 1.0 |
| | Food | 82 | 85 | 90 | 84 | 78 | 87 | 95 | 86 | 80 | 89 | 98 | 89 | 340 | 345 | 356 | 1.3 | 3.1 |
| | Other | 74 | 74 | 75 | 78 | 75 | 75 | 77 | 80 | 78 | 78 | 79 | 83 | 248 | 253 | 259 | 2.1 | 2.5 |
| | Domestic Demand | 584 | 691 | 710 | 613 | 572 | 700 | 722 | 622 | 582 | 710 | 733 | 632 | 2,598 | 2,617 | 2,658 | 0.7 | 1.6 |
| | Exports | 66 | 70 | 77 | 71 | 51 | 58 | 45 | 50 | 57 | 65 | 50 | 55 | 284 | 204 | 227 | -28.2 | 11.3 |
| | Total Demand | 650 | 761 | 787 | 684 | 623 | 758 | 767 | 672 | 639 | 775 | 783 | 688 | 2,882 | 2,821 | 2,885 | -2.1 | 2.3 |
| Inventory Change | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |

BENZENE Trade for EU 15 excluding EFTA

Source = World Trade Atlas N.B.Data is not reconciled with other sources and should be used with caution

| | | Exports kt | | | | | | | | | |
|-------|------|------------|-----------|-----------|-----|--------|--------|-------------|----------|----------|-------|
| | | N.America | S.America | C. Europe | CIS | Africa | M.East | Indian S.C. | N.E.Asia | S.E.Asia | World |
| 2010 | Sep | 19 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 20 |
| | Oct | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
| | Nov | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Year | 2008 | 40 | 0 | 15 | 4 | 1 | 0 | 0 | 0 | 0 | 61 |
| to | 2009 | 168 | 0 | 1 | 0 | 0 | 19 | 4 | 39 | 38 | 269 |
| 2010 | 2010 | 47 | 0 | 2 | 13 | 0 | 6 | 0 | 0 | 0 | 68 |
| Year | 2008 | 138 | 0 | 16 | 4 | 1 | 0 | 0 | 0 | 0 | 159 |
| Total | 2009 | 227 | 0 | 1 | 0 | 0 | 19 | 4 | 39 | 44 | 334 |

| | | Imports kt | | | | | | | | | |
|-------|------|------------|-----------|-----------|-----|--------|--------|-------------|----------|----------|-------|
| | | N.America | S.America | C. Europe | CIS | Africa | M.East | Indian S.C. | N.E.Asia | S.E.Asia | World |
| 2010 | Sep | 10 | 5 | 10 | 0 | 3 | 53 | 0 | 0 | 0 | 80 |
| | Oct | 0 | 0 | 11 | 0 | 0 | 30 | 6 | 5 | 0 | 52 |
| | Nov | 0 | 4 | 16 | 0 | 0 | 32 | 11 | 0 | 0 | 64 |
| Year | 2008 | 48 | 46 | 222 | 20 | 24 | 351 | 99 | 6 | 0 | 815 |
| to | 2009 | 39 | 11 | 132 | 5 | 0 | 254 | 57 | 28 | 35 | 561 |
| 2010 | 2010 | 74 | 0 | 117 | 1 | 8 | 296 | 38 | 61 | 41 | 636 |
| Year | 2008 | 48 | 46 | 246 | 20 | 24 | 388 | 109 | 7 | 3 | 889 |
| Total | 2009 | 39 | 24 | 162 | 5 | 4 | 306 | 74 | 28 | 35 | 677 |

N.B. Data includes benzene for use as power or heating fuels.

Toluene Trade for EU 15 excluding EFTA

Source = World Trade Atlas N.B.Data is not reconciled with other sources and should be used with caution

| | | Exports kt | | | | | | | | | |
|-------|------|------------|-----------|-----------|-----|--------|--------|-------------|----------|----------|-------|
| | | N.America | S.America | C. Europe | CIS | Africa | M.East | Indian S.C. | N.E.Asia | S.E.Asia | World |
| 2010 | Sep | 27 | 0 | 0 | 2 | 4 | 7 | 0 | 0 | 3 | 43 |
| | Oct | 0 | 1 | 0 | 5 | 3 | 5 | 1 | 0 | 0 | 15 |
| | Nov | 0 | 1 | 0 | 0 | 2 | 5 | 0 | 0 | 0 | 8 |
| Year | 2008 | 134 | 1 | 5 | 28 | 38 | 51 | 49 | 18 | 16 | 340 |
| to | 2009 | 11 | 3 | 4 | 43 | 47 | 58 | 108 | 48 | 24 | 347 |
| 2010 | 2010 | 0 | 2 | 5 | 54 | 30 | 57 | 14 | 3 | 16 | 181 |
| Year | 2008 | 135 | 2 | 6 | 32 | 45 | 58 | 67 | 18 | 21 | 384 |
| Total | 2009 | 11 | 3 | 4 | 58 | 56 | 67 | 122 | 61 | 28 | 412 |

| | | Imports kt | | | | | | | | | |
|-------|------|------------|-----------|-----------|-----|--------|--------|-------------|----------|----------|-------|
| | | N.America | S.America | C. Europe | CIS | Africa | M.East | Indian S.C. | N.E.Asia | S.E.Asia | World |
| 2010 | Sep | 0 | 0 | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 10 |
| | Oct | 1 | 0 | 6 | 2 | 0 | 0 | 0 | 0 | 0 | 8 |
| | Nov | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 4 |
| Year | 2008 | 0 | 0 | 116 | 19 | 0 | 1 | 0 | 0 | 0 | 137 |
| to | 2009 | 1 | 0 | 58 | 12 | 0 | 0 | 0 | 0 | 0 | 71 |
| 2010 | 2010 | 13 | 0 | 42 | 12 | 0 | 0 | 0 | 0 | 0 | 68 |
| Year | 2008 | 0 | 0 | 136 | 23 | 0 | 2 | 0 | 0 | 0 | 162 |
| Total | 2009 | 5 | 0 | 72 | 15 | 0 | 0 | 0 | 0 | 0 | 92 |

N.B. Data includes toluene for use as power or heating fuels.

MX Trade for EU 15 excluding EFTA

| | | Exports kt | | | | | | | | | |
|-------|------|------------|-----------|-----------|-----|--------|--------|-------------|----------|----------|-------|
| | | N.America | S.America | C. Europe | CIS | Africa | M.East | Indian S.C. | N.E.Asia | S.E.Asia | World |
| 2010 | Sep | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| | Oct | 0 | 0 | 0 | 0 | 2 | 1 | 1 | 0 | 0 | 4 |
| | Nov | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Year | 2008 | 0 | 0 | 0 | 0 | 12 | 5 | 4 | 10 | 0 | 32 |
| to | 2009 | 0 | 0 | 0 | 0 | 6 | 3 | 1 | 7 | 6 | 25 |
| 2010 | 2010 | 0 | 0 | 0 | 0 | 3 | 9 | 0 | 0 | 0 | 13 |
| Year | 2008 | 0 | 0 | 0 | 0 | 13 | 6 | 4 | 10 | 0 | 33 |
| Total | 2009 | 0 | 0 | 1 | 0 | 7 | 3 | 1 | 9 | 6 | 27 |

| | | Imports kt | | | | | | | | | |
|-------|------|------------|-----------|-----------|-----|--------|--------|-------------|----------|----------|-------|
| | | N.America | S.America | C. Europe | CIS | Africa | M.East | Indian S.C. | N.E.Asia | S.E.Asia | World |
| 2010 | Sep | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| | Oct | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| | Nov | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| Year | 2008 | 2 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| to | 2009 | 46 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 53 |
| 2010 | 2010 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| Year | 2008 | 5 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 13 |
| Total | 2009 | 52 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 60 |

N.B.Data includes mixed xylene for use as power or heating fuels.

STR Trade for EU 15 excluding EFTA

Source = World Trade Atlas N.B.Data is not reconciled with other sources and should be used with caution

| | | Exports kt | | | | | | | | | |
|-------|------|------------|-----------|-----------|-----|--------|--------|-------------|----------|----------|-------|
| | | N.America | S.America | C. Europe | CIS | Africa | M.East | Indian S.C. | N.E.Asia | S.E.Asia | World |
| 2010 | Sep | 0 | 0 | 18 | 1 | 1 | 0 | 0 | 0 | 0 | 20 |
| | Oct | 0 | 0 | 28 | 1 | 0 | 0 | 0 | 0 | 0 | 29 |
| | Nov | 0 | 0 | 18 | 1 | 0 | 5 | 0 | 0 | 0 | 24 |
| Year | 2008 | 11 | 15 | 181 | 8 | 9 | 30 | 1 | 0 | 0 | 254 |
| to | 2009 | 10 | 1 | 188 | 7 | 4 | 52 | 16 | 0 | 0 | 279 |
| 2010 | 2010 | 0 | 39 | 206 | 7 | 6 | 52 | 12 | 25 | 8 | 354 |
| Year | 2008 | 11 | 17 | 204 | 8 | 11 | 35 | 1 | 4 | 0 | 290 |
| Total | 2009 | 10 | 2 | 225 | 9 | 5 | 70 | 27 | 20 | 0 | 366 |

| | | Imports kt | | | | | | | | | |
|-------|------|------------|-----------|-----------|-----|--------|--------|-------------|----------|----------|-------|
| | | N.America | S.America | C. Europe | CIS | Africa | M.East | Indian S.C. | N.E.Asia | S.E.Asia | World |
| 2010 | Sep | 21 | 0 | 0 | 11 | 0 | 13 | 0 | 5 | 0 | 49 |
| | Oct | 12 | 0 | 0 | 8 | 0 | 21 | 0 | 4 | 4 | 48 |
| | Nov | 4 | 0 | 0 | 5 | 0 | 18 | 0 | 0 | 0 | 27 |
| Year | 2008 | 169 | 0 | 0 | 178 | 0 | 51 | 0 | 5 | 2 | 405 |
| to | 2009 | 264 | 1 | 0 | 126 | 0 | 143 | 0 | 15 | 6 | 555 |
| 2010 | 2010 | 206 | 0 | 1 | 76 | 0 | 119 | 0 | 14 | 17 | 432 |
| Year | 2008 | 176 | 0 | 0 | 206 | 0 | 89 | 0 | 18 | 3 | 492 |
| Total | 2009 | 302 | 1 | 0 | 144 | 0 | 181 | 0 | 15 | 7 | 651 |

POLYSTYRENE Trade for EU 15 excluding EFTA

Source = World Trade Atlas N.B.Data is not reconciled with other sources and should be used with caution

| | | Exports kt | | | | | | | | | |
|-------|------|------------|-----------|-----------|-----|--------|--------|-------------|----------|----------|-------|
| | | N.America | S.America | C. Europe | CIS | Africa | M.East | Indian S.C. | N.E.Asia | S.E.Asia | World |
| 2010 | Sep | 0 | 0 | 8 | 3 | 3 | 7 | 0 | 0 | 0 | 21 |
| | Oct | 0 | 0 | 10 | 3 | 4 | 7 | 0 | 1 | 0 | 26 |
| | Nov | 0 | 0 | 11 | 6 | 3 | 7 | 0 | 1 | 0 | 27 |
| Year | 2008 | 2 | 3 | 83 | 22 | 29 | 74 | 1 | 3 | 1 | 217 |
| to | 2009 | 1 | 2 | 99 | 34 | 43 | 84 | 1 | 8 | 1 | 272 |
| 2010 | 2010 | 2 | 1 | 102 | 43 | 36 | 78 | 0 | 8 | 1 | 271 |
| Year | 2008 | 2 | 3 | 97 | 25 | 37 | 81 | 1 | 3 | 1 | 249 |
| Total | 2009 | 1 | 2 | 116 | 41 | 52 | 99 | 1 | 10 | 1 | 322 |

| | | Imports kt | | | | | | | | | |
|-------|------|------------|-----------|-----------|-----|--------|--------|-------------|----------|----------|-------|
| | | N.America | S.America | C. Europe | CIS | Africa | M.East | Indian S.C. | N.E.Asia | S.E.Asia | World |
| 2010 | Sep | 1 | 0 | 6 | 1 | 0 | 2 | 4 | 1 | 0 | 14 |
| | Oct | 1 | 0 | 6 | 1 | 0 | 1 | 0 | 1 | 0 | 10 |
| | Nov | 2 | 0 | 4 | 0 | 1 | 1 | 1 | 0 | 0 | 10 |
| Year | 2008 | 7 | 0 | 65 | 11 | 1 | 10 | 23 | 6 | 5 | 129 |
| to | 2009 | 7 | 0 | 60 | 12 | 1 | 17 | 6 | 5 | 1 | 108 |
| 2010 | 2010 | 9 | 0 | 57 | 7 | 2 | 2 | 5 | 4 | 2 | 89 |
| Year | 2008 | 9 | 0 | 73 | 13 | 2 | 13 | 25 | 7 | 5 | 147 |
| Total | 2009 | 9 | 0 | 70 | 14 | 2 | 17 | 7 | 5 | 1 | 126 |

EPS Trade for EU 15 excluding EFTA

| | | Exports kt | | | | | | | | | |
|-------|------|------------|-----------|-----------|-----|--------|--------|-------------|----------|----------|-------|
| | | N.America | S.America | C. Europe | CIS | Africa | M.East | Indian S.C. | N.E.Asia | S.E.Asia | World |
| 2010 | Sep | 0 | 1 | 6 | 2 | 1 | 1 | 0 | 1 | 0 | 12 |
| | Oct | 0 | 0 | 9 | 2 | 0 | 1 | 0 | 0 | 0 | 13 |
| | Nov | 0 | 1 | 4 | 1 | 1 | 2 | 0 | 0 | 0 | 9 |
| Year | 2008 | 1 | 5 | 67 | 20 | 5 | 16 | 1 | 6 | 1 | 122 |
| to | 2009 | 1 | 4 | 64 | 17 | 5 | 16 | 1 | 5 | 1 | 114 |
| 2010 | 2010 | 0 | 6 | 59 | 17 | 5 | 20 | 0 | 7 | 1 | 114 |
| Year | 2008 | 1 | 5 | 80 | 23 | 6 | 18 | 1 | 7 | 2 | 142 |
| Total | 2009 | 1 | 4 | 74 | 20 | 6 | 18 | 1 | 6 | 2 | 132 |

| | | Imports kt | | | | | | | | | |
|-------|------|------------|-----------|-----------|-----|--------|--------|-------------|----------|----------|-------|
| | | N.America | S.America | C. Europe | CIS | Africa | M.East | Indian S.C. | N.E.Asia | S.E.Asia | World |
| 2010 | Sep | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 3 | 0 | 5 |
| | Oct | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 2 | 0 | 4 |
| | Nov | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 3 |
| Year | 2008 | 2 | 2 | 16 | 0 | 0 | 1 | 0 | 23 | 1 | 45 |
| to | 2009 | 0 | 1 | 19 | 4 | 0 | 0 | 0 | 25 | 1 | 51 |
| 2010 | 2010 | 1 | 1 | 22 | 1 | 0 | 0 | 0 | 18 | 1 | 44 |
| Year | 2008 | 2 | 3 | 18 | 1 | 0 | 1 | 0 | 25 | 1 | 50 |
| Total | 2009 | 0 | 1 | 23 | 4 | 0 | 0 | 0 | 27 | 1 | 58 |

PX Trade for EU 15 excluding EFTA

Source = World Trade Atlas N.B.Data is not reconciled with other sources and should be used with caution

| | | Exports kt | | | | | | | | | |
|-------|------|------------|-----------|-----------|-----|--------|--------|-------------|----------|----------|-------|
| | | N.America | S.America | C. Europe | CIS | Africa | M.East | Indian S.C. | N.E.Asia | S.E.Asia | World |
| 2010 | Sep | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 16 | 0 | 28 |
| | Oct | 20 | 0 | 0 | 0 | 0 | 0 | 5 | 12 | 8 | 45 |
| | Nov | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Year | 2008 | 56 | 0 | 0 | 0 | 0 | 0 | 0 | 70 | 0 | 127 |
| to | 2009 | 67 | 0 | 0 | 0 | 0 | 8 | 5 | 96 | 9 | 186 |
| 2010 | 2010 | 20 | 0 | 0 | 0 | 0 | 24 | 5 | 0 | 0 | 48 |
| Year | 2008 | 74 | 0 | 0 | 0 | 0 | 0 | 1 | 83 | 2 | 160 |
| Total | 2009 | 82 | 0 | 0 | 0 | 0 | 8 | 5 | 146 | 9 | 250 |

Imports kt

| | | N.America | S.America | C. Europe | CIS | Africa | M.East | Indian S.C. | N.E.Asia | S.E.Asia | World |
|-------|------|-----------|-----------|-----------|-----|--------|--------|-------------|----------|----------|-------|
| 2010 | Sep | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 0 | 0 | 8 |
| | Oct | 0 | 5 | 0 | 4 | 0 | 5 | 0 | 0 | 0 | 14 |
| | Nov | 0 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 8 |
| Year | 2008 | 0 | 5 | 9 | 24 | 0 | 107 | 0 | 0 | 0 | 145 |
| to | 2009 | 0 | 5 | 1 | 13 | 0 | 73 | 0 | 0 | 0 | 92 |
| 2010 | 2010 | 5 | 5 | 0 | 35 | 0 | 47 | 5 | 0 | 0 | 96 |
| Year | 2008 | 0 | 5 | 11 | 30 | 0 | 124 | 0 | 0 | 0 | 171 |
| Total | 2009 | 0 | 5 | 1 | 18 | 0 | 78 | 0 | 0 | 0 | 102 |

PTA Trade for EU 15 excluding EFTA

Source = World Trade Atlas N.B.Data is not reconciled with other sources and should be used with caution

| | | Exports kt | | | | | | | | | |
|-------|------|------------|-----------|-----------|-----|--------|--------|-------------|----------|----------|-------|
| | | N.America | S.America | C. Europe | CIS | Africa | M.East | Indian S.C. | N.E.Asia | S.E.Asia | World |
| 2010 | Sep | 4 | 0 | 0 | 4 | 0 | 5 | 0 | 0 | 0 | 12 |
| | Oct | 0 | 0 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 4 |
| | Nov | 0 | 0 | 2 | 5 | 0 | 3 | 0 | 0 | 0 | 11 |
| Year | 2008 | 8 | 12 | 1 | 85 | 0 | 28 | 0 | 0 | 0 | 134 |
| to | 2009 | 0 | 0 | 19 | 10 | 0 | 32 | 0 | 0 | 0 | 60 |
| 2010 | 2010 | 0 | 7 | 38 | 11 | 0 | 45 | 0 | 0 | 0 | 101 |
| Year | 2008 | 8 | 12 | 2 | 93 | 0 | 38 | 0 | 0 | 0 | 153 |
| Total | 2009 | 0 | 0 | 22 | 10 | 0 | 43 | 0 | 0 | 0 | 75 |

Imports kt

| | | N.America | S.America | C. Europe | CIS | Africa | M.East | Indian S.C. | N.E.Asia | S.E.Asia | World |
|-------|------|-----------|-----------|-----------|-----|--------|--------|-------------|----------|----------|-------|
| 2010 | Sep | 11 | 0 | 0 | 0 | 0 | 2 | 0 | 1 | 14 | 27 |
| | Oct | 8 | 0 | 0 | 0 | 0 | 1 | 0 | 3 | 7 | 20 |
| | Nov | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Year | 2008 | 78 | 0 | 0 | 0 | 0 | 37 | 2 | 31 | 126 | 275 |
| to | 2009 | 78 | 0 | 0 | 0 | 0 | 27 | 2 | 34 | 80 | 220 |
| 2010 | 2010 | 57 | 0 | 0 | 1 | 0 | 14 | 0 | 7 | 27 | 106 |
| Year | 2008 | 88 | 0 | 0 | 1 | 0 | 38 | 3 | 33 | 155 | 318 |
| Total | 2009 | 93 | 0 | 0 | 0 | 0 | 34 | 2 | 37 | 92 | 258 |

N.B. OFFICIAL PTA EXPORT DATA FOR WEST EUROPE IS VIEWED AS NOT FULLY REPRESENTATIVE.

PET Trade for EU 15 excluding EFTA

| | | Exports kt | | | | | | | | | |
|-------|------|------------|-----------|-----------|-----|--------|--------|-------------|----------|----------|-------|
| | | N.America | S.America | C. Europe | CIS | Africa | M.East | Indian S.C. | N.E.Asia | S.E.Asia | World |
| 2010 | Sep | 1 | 0 | 8 | 2 | 0 | 3 | 0 | 8 | 0 | 22 |
| | Oct | 1 | 0 | 13 | 3 | 0 | 2 | 0 | 6 | 0 | 26 |
| | Nov | 1 | 1 | 11 | 7 | 0 | 1 | 0 | 9 | 0 | 30 |
| Year | 2008 | 8 | 5 | 134 | 30 | 5 | 49 | 0 | 66 | 1 | 298 |
| to | 2009 | 5 | 2 | 128 | 36 | 4 | 13 | 1 | 78 | 1 | 268 |
| 2010 | 2010 | 7 | 2 | 157 | 44 | 4 | 16 | 1 | 71 | 1 | 303 |
| Year | 2008 | 9 | 6 | 153 | 34 | 6 | 50 | 1 | 75 | 1 | 335 |
| Total | 2009 | 6 | 3 | 152 | 38 | 5 | 16 | 1 | 91 | 1 | 314 |

Imports kt

| | | N.America | S.America | C. Europe | CIS | Africa | M.East | Indian S.C. | N.E.Asia | S.E.Asia | World |
|-------|------|-----------|-----------|-----------|-----|--------|--------|-------------|----------|----------|-------|
| 2010 | Sep | 4 | 0 | 6 | 25 | 1 | 14 | 11 | 10 | 2 | 74 |
| | Oct | 4 | 0 | 4 | 22 | 0 | 27 | 5 | 15 | 2 | 79 |
| | Nov | 2 | 0 | 5 | 18 | 0 | 18 | 11 | 16 | 3 | 73 |
| Year | 2008 | 43 | 4 | 52 | 224 | 10 | 156 | 99 | 154 | 28 | 769 |
| to | 2009 | 35 | 11 | 47 | 194 | 8 | 269 | 95 | 206 | 21 | 886 |
| 2010 | 2010 | 38 | 0 | 48 | 302 | 0 | 257 | 104 | 170 | 7 | 926 |
| Year | 2008 | 49 | 4 | 60 | 281 | 11 | 185 | 113 | 199 | 32 | 935 |
| Total | 2009 | 42 | 11 | 55 | 229 | 8 | 337 | 113 | 264 | 26 | 1086 |

Orthoxylene Trade for EU 15 excluding EFTA

Source = World Trade Atlas N.B.Data is not reconciled with other sources and should be used with caution

| | | Exports kt | | | | | | | | | |
|------------|------|------------|-----------|-----------|-----|--------|--------|-------------|----------|----------|-------|
| | | N.America | S.America | C. Europe | CIS | Africa | M.East | Indian S.C. | N.E.Asia | S.E.Asia | World |
| 2010 | Sep | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Oct | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 3 | 0 | 5 |
| | Nov | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Year to | 2008 | 0 | 0 | 2 | 0 | 1 | 0 | 6 | 0 | 0 | 9 |
| | 2009 | 0 | 0 | 2 | 0 | 6 | 0 | 12 | 46 | 2 | 67 |
| 2010 | 2010 | 6 | 2 | 16 | 0 | 10 | 0 | 5 | 6 | 0 | 45 |
| Year Total | 2008 | 0 | 0 | 2 | 0 | 1 | 0 | 13 | 13 | 0 | 29 |
| | 2009 | 0 | 0 | 3 | 0 | 7 | 0 | 16 | 52 | 2 | 80 |

| | | Imports kt | | | | | | | | | |
|------------|------|------------|-----------|-----------|-----|--------|--------|-------------|----------|----------|-------|
| | | N.America | S.America | C. Europe | CIS | Africa | M.East | Indian S.C. | N.E.Asia | S.E.Asia | World |
| 2010 | Sep | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 4 |
| | Oct | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 5 |
| | Nov | 0 | 0 | 0 | 9 | 0 | 1 | 0 | 0 | 0 | 10 |
| Year to | 2008 | 6 | 0 | 7 | 64 | 0 | 2 | 0 | 0 | 0 | 78 |
| | 2009 | 0 | 0 | 0 | 58 | 0 | 0 | 0 | 0 | 0 | 58 |
| 2010 | 2010 | 3 | 0 | 0 | 55 | 0 | 6 | 0 | 0 | 0 | 64 |
| Year Total | 2008 | 6 | 0 | 7 | 72 | 0 | 2 | 0 | 0 | 0 | 88 |
| | 2009 | 0 | 0 | 0 | 71 | 0 | 1 | 0 | 0 | 0 | 73 |

PA Trade for EU 15 excluding EFTA

Source = World Trade Atlas N.B.Data is not reconciled with other sources and should be used with caution

| | | Exports kt | | | | | | | | | |
|------------|------|------------|-----------|-----------|-----|--------|--------|-------------|----------|----------|-------|
| | | N.America | S.America | C. Europe | CIS | Africa | M.East | Indian S.C. | N.E.Asia | S.E.Asia | World |
| 2010 | Sep | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| | Oct | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| | Nov | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| Year to | 2008 | 0 | 0 | 2 | 1 | 4 | 1 | 0 | 0 | 0 | 9 |
| | 2009 | 0 | 0 | 2 | 0 | 6 | 5 | 0 | 0 | 0 | 15 |
| 2010 | 2010 | 1 | 0 | 3 | 0 | 7 | 1 | 0 | 0 | 0 | 14 |
| Year Total | 2008 | 0 | 0 | 2 | 1 | 4 | 1 | 0 | 0 | 0 | 10 |
| | 2009 | 1 | 0 | 2 | 0 | 7 | 6 | 0 | 0 | 0 | 17 |

| | | Imports kt | | | | | | | | | |
|------------|------|------------|-----------|-----------|-----|--------|--------|-------------|----------|----------|-------|
| | | N.America | S.America | C. Europe | CIS | Africa | M.East | Indian S.C. | N.E.Asia | S.E.Asia | World |
| 2010 | Sep | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 3 |
| | Oct | 0 | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 3 |
| | Nov | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 |
| Year to | 2008 | 3 | 5 | 8 | 14 | 0 | 6 | 3 | 1 | 0 | 41 |
| | 2009 | 1 | 2 | 5 | 11 | 0 | 5 | 0 | 0 | 0 | 25 |
| 2010 | 2010 | 1 | 1 | 4 | 12 | 0 | 4 | 0 | 1 | 0 | 23 |
| Year Total | 2008 | 3 | 5 | 9 | 17 | 0 | 7 | 4 | 1 | 0 | 46 |
| | 2009 | 1 | 2 | 6 | 13 | 0 | 7 | 0 | 0 | 0 | 29 |

PHENOL Trade for EU 15 excluding EFTA

Source = World Trade Atlas N.B.Data is not reconciled with other sources and should be used with caution

| | | Exports kt | | | | | | | | | |
|--------------|------|------------|-----------|-----------|-----|--------|--------|-------------|----------|----------|-------|
| | | N.America | S.America | C. Europe | CIS | Africa | M.East | Indian S.C. | N.E.Asia | S.E.Asia | World |
| 2010 | Sep | 0 | 0 | 2 | 1 | 0 | 1 | 0 | 12 | 3 | 19 |
| | Oct | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 3 |
| | Nov | 0 | 0 | 0 | 1 | 0 | 6 | 0 | 17 | 0 | 25 |
| Year to 2010 | 2008 | 0 | 0 | 7 | 14 | 0 | 18 | 6 | 119 | 22 | 187 |
| | 2009 | 0 | 0 | 4 | 10 | 0 | 14 | 0 | 63 | 0 | 92 |
| | 2010 | 0 | 0 | 6 | 12 | 1 | 20 | 10 | 70 | 0 | 119 |
| Year Total | 2008 | 0 | 0 | 8 | 16 | 1 | 22 | 6 | 133 | 24 | 211 |
| | 2009 | 0 | 0 | 4 | 12 | 0 | 17 | 1 | 83 | 0 | 118 |

| | | Imports kt | | | | | | | | | |
|--------------|------|------------|-----------|-----------|-----|--------|--------|-------------|----------|----------|-------|
| | | N.America | S.America | C. Europe | CIS | Africa | M.East | Indian S.C. | N.E.Asia | S.E.Asia | World |
| 2010 | Sep | 5 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 8 |
| | Oct | 13 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 16 |
| | Nov | 6 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 8 |
| Year to 2010 | 2008 | 57 | 0 | 7 | 26 | 0 | 0 | 0 | 0 | 0 | 90 |
| | 2009 | 56 | 0 | 4 | 23 | 0 | 0 | 0 | 0 | 0 | 84 |
| | 2010 | 69 | 0 | 2 | 14 | 0 | 0 | 0 | 0 | 0 | 86 |
| Year Total | 2008 | 63 | 0 | 8 | 29 | 0 | 0 | 0 | 0 | 0 | 100 |
| | 2009 | 79 | 0 | 5 | 28 | 0 | 0 | 0 | 8 | 0 | 120 |

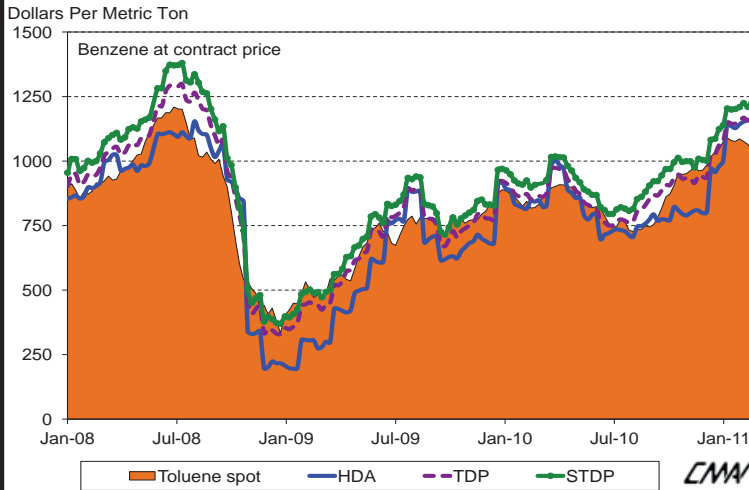
CUMENE Trade for EU 15 excluding EFTA

Source = World Trade Atlas N.B.Data is not reconciled with other sources and should be used with caution

| | | Exports kt | | | | | | | | | |
|--------------|------|------------|-----------|-----------|-----|--------|--------|-------------|----------|----------|-------|
| | | N.America | S.America | C. Europe | CIS | Africa | M.East | Indian S.C. | N.E.Asia | S.E.Asia | World |
| 2010 | Sep | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Oct | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 3 |
| | Nov | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 3 |
| Year to 2010 | 2008 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 11 | 0 | 17 |
| | 2009 | 5 | 0 | 0 | 0 | 0 | 12 | 3 | 11 | 0 | 31 |
| | 2010 | 0 | 0 | 0 | 0 | 0 | 12 | 0 | 1 | 0 | 13 |
| Year Total | 2008 | 3 | 0 | 0 | 0 | 0 | 9 | 3 | 11 | 0 | 27 |
| | 2009 | 5 | 0 | 0 | 0 | 0 | 12 | 3 | 11 | 0 | 31 |

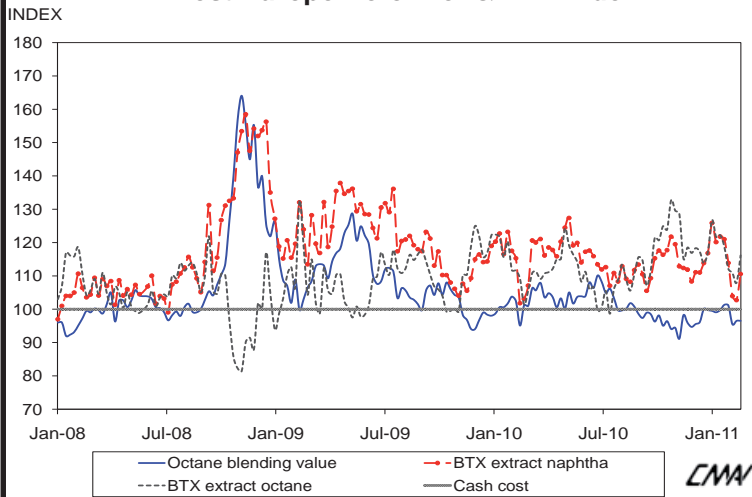
| | | Imports kt | | | | | | | | | |
|--------------|------|------------|-----------|-----------|-----|--------|--------|-------------|----------|----------|-------|
| | | N.America | S.America | C. Europe | CIS | Africa | M.East | Indian S.C. | N.E.Asia | S.E.Asia | World |
| 2010 | Sep | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 |
| | Oct | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Nov | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 8 |
| Year to 2010 | 2008 | 114 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 114 |
| | 2009 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 16 |
| | 2010 | 98 | 0 | 0 | 0 | 0 | 0 | 0 | 88 | 0 | 186 |
| Year Total | 2008 | 114 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 114 |
| | 2009 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 23 | 2 | 31 |

West Europe Toluene Netback Values



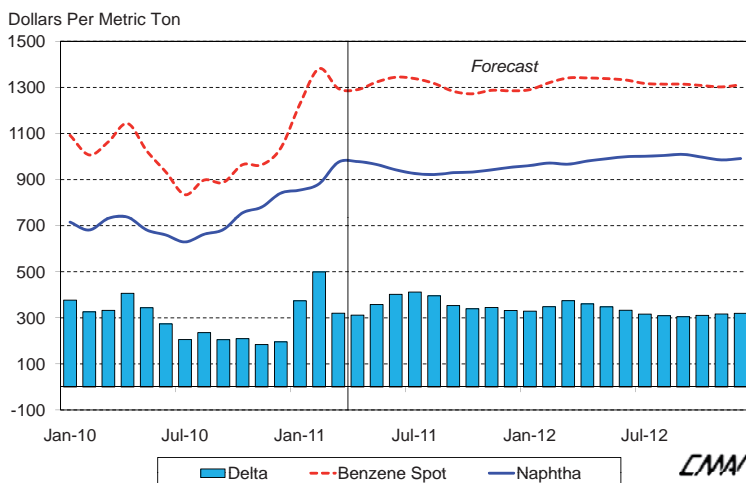
This graph shows weekly toluene European spot prices against octane values and netbacks from hydrodealkylation and disproportionation units. The value of this calculations is that it shows when there are constraints or pressures in the system and they bracket the short upward and downward movement in the market. The calculation can also be viewed as a type of economic assessment for directly comparing different technologies. This is done by expressing the relative profit or loss in \$ per ton of toluene when evaluating the current market value to alternate value calculations. These calculations use contract pricing and the octane calculation uses toluene blending octane at $(R+M)/2$, for the purposes of global comparison.

West Europe Reformer & BTX Index



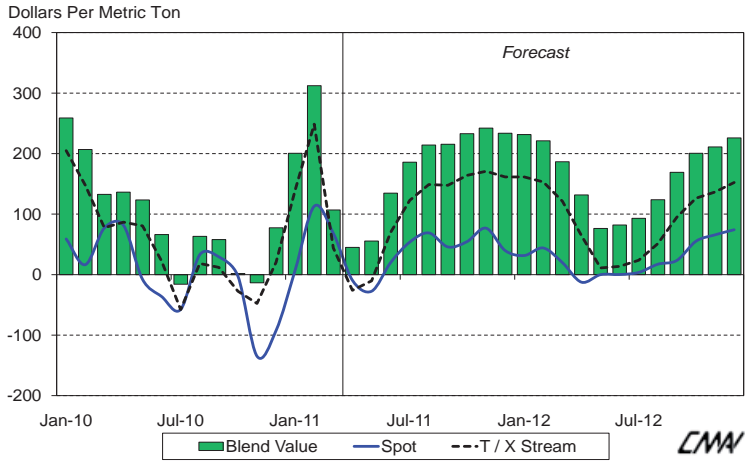
The BTX Extraction-Naphtha and BTX Extraction-Octane indices show the overall profitability of aromatics operations for integrated and non-integrated producers, respectively. They are the ratio of the market price BTX line and cost bars multiplied by 100. The Octane Blending Index is the ratio of the octane value of reformat and reformat production costs for a Continuous Catalytic Reformer. When the index falls below 100, the implication is that the operation is losing money on a cash cost basis. Plainly these indices are volatile and there are large swings from month to month. These calculations are a general model of a BTX unit and do not represent any individual producer.

West Europe Benzene and Naphtha Delta



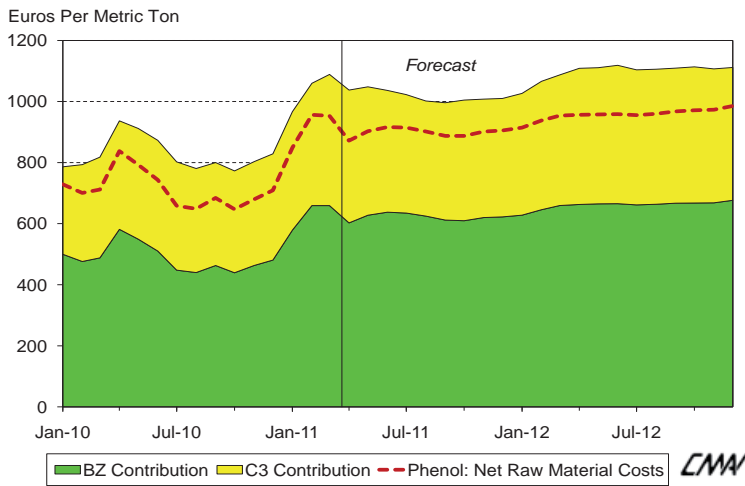
This graph shows the average monthly spot price of benzene against that of naphtha and the differential or delta between these two price series. Historically, benzene has traded at a premium of between \$100 and \$200 per ton over naphtha, and premiums of less than \$100 per ton would not justify reinvestment economics for producers.

**West Europe HDA Variable Margins
Toluene at Spot, Blend Value and T/X Stream**



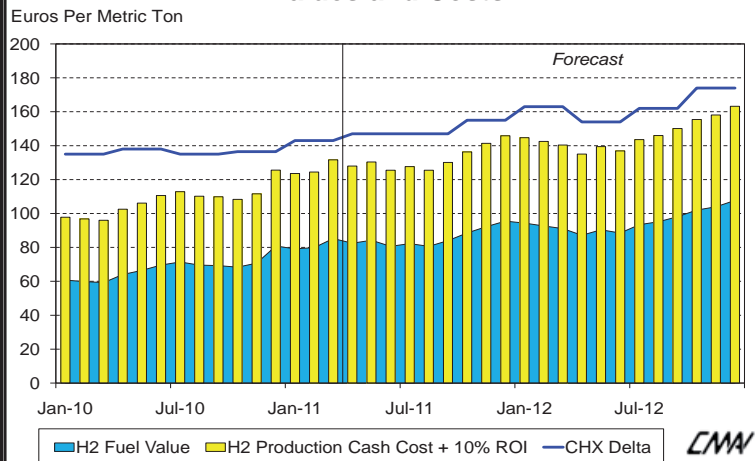
This graph demonstrates the strength of benzene with respect to toluene. The additional line to this chart shows HDA economics based on a Pyrotol-type unit with a toluene/xylene stream at gasoline values. This is the type of economic model many European HDA operators now use. These calculations do, of course, depend on the way the by-product fuel gas from this process is valued. Some site complexes will have a greater need for fuel gas than others which will affect the alternate values.

Cumene/Phenol Raw Material Costs



The graph shows the effects of benzene and propylene on cumene/phenol production costs. The line in the graph shows phenol raw material costs (not including variables and fixed costs) including an acetone credit. The acetone value is based on discounted prices. Please note that CMAI's production economics analysis does not include corporate overhead or depreciation suggesting margins are lower than shown.

West Europe Cyclohexane Delta, Hydrogen Values and Costs



This chart compares the quarterly benzene/cyclohexane delta with different methods for valuing hydrogen. Historically, hydrogen had been valued at its fuel value plus a premium of 20 percent to reflect the cost of moving the hydrogen into cyclohexane production. As hydrogen became tighter, a higher premium (around 80 percent) over fuel value was used as an approximation of the cost of on-purpose production of hydrogen, including capital costs. Now we continue to show, for reference, the equivalent fuel value of hydrogen (with no premium) as the lowest alternative value for hydrogen, but use an estimate of the actual cost of producing hydrogen from steam reforming as input for our estimate of future cyclohexane delta changes.

The solid area in the chart represents the fuel value for hydrogen in Euros per ton. Values up to December 2009 were calculated using the West European 1-percent Sulphur Fuel Oil average CIF price converted to the hydrogen equivalent fuel value. From January 2010, however, the values are based a CMAI West European Benchmark Energy Price which reflects significantly lower gas prices that have become apparent following an unprecedented divergence of fuel oil pricing and natural gas pricing in Europe since the start of 2009. This Benchmark price is derived by CMAI from a 50/50 weighting of the West European 1-percent Sulphur Fuel Oil average CIF price and the Zeebrugge Hub Gas Price. Forecast gas prices are based on a discount to oil on a fuel equivalent basis. The gas discount to fuel oil applied by CMAI for October 2010 is 44 percent. With a 50 percent gas weighting, this produces a Benchmark Energy Price 22 percent below oil for October. This discount is forecast to increase into 2011 but then decay slowly as European gas prices catch up again with oil. By the end of 2011 we expect natural gas to show a 45 percent discount to fuel oil. With a 50 percent weighting, this produces a Benchmark Energy Price 22.5 percent below oil by December 2011.

The bars in the Chart represent the estimated cash cost of production of hydrogen (feedstock, variable costs and fixed costs) from the steam reforming of natural gas, plus a return on investment of 10 percent. As in the case of the Hydrogen Fuel Value, up to December 2009 these production costs estimates were calculated on an implied gas price based on the price of West European 1-percent Sulphur Fuel Oil. From January 2010, we have switched to the same West European Benchmark Energy Price as above. This has the effect of substantially reducing the estimated cost of on-purpose production of hydrogen.

CMAI's estimates of future cyclohexane deltas, represented by the *delta line* in the chart, are also derived from cost forecasts based on this Benchmark Energy Price forecast. Using the previous quarter's delta as our reference point, CMAI is adjusting future quarters' deltas by the difference in our forecast cost of production for hydrogen between the start of the two quarters, weighted by the proportion of hydrogen consumed in the production of one ton of cyclohexane. This methodology should provide an indicator of the changes in the cost of producing the incremental ton of cyclohexane over time, but will not reflect any changes in the negotiated delta due to quarter-to-quarter supply/demand issues.