

ORGANISATION
OF THE
EUROPEAN COMMUNITIES

X Brussels, 14.12.1981
WAS/sm

Directorate-General
Internal market and industrial affairs

III-A-4

EAST - WEST TRADE IN CHEMICALS

ITS STRUCTURAL PROBLEMS

In 1978, DG III had prepared a preliminary study on
"Chemical Buy-Back Agreements and their
Potential Impact on the EC Petrochemical
Markets".

Through this study, 24 products, mostly petrochemicals had been identified as having been included into buy-back agreements.

One of the most important conclusions of the study was, that compensation*) was not so much a problem of volume but rather of pricing.

As pricing clauses of compensation agreements are secret microeconomic data, DG III has developed an approach to survey imports from Eastern European countries of the products identified, not making any distinction between compensation and non-compensation (normal) trade, and comparing

- market shares of imports from Eastern Europe
- market shares of corresponding extra EC imports
- unit price ratios of imports from Eastern Europe
and of intra EC imports.

The report enclosed contains the results of a 5 year survey (1976-1980) for 22 out of 24 products identified.

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*) It does make sense not to speak about buy-back,
barter etc. but to distinguish between
plant-product compensation and
product-product compensation.
This terminology is more self-explaining.

Chemical trade statistics offer the valuable advantage that for numerous chemical products the Nimexe Lines give data for a single individual chemical product.

Thus anhydrous ammonia (28.16) e.g. has exactly the same specifications regardless whether coming from Algeria, Mexico, Russia or from any EC member country.

For such chemicals then, unit prices (value/volume) offer a unique means with a high indicator value to compare annual averages of pricing when comparing unit values of extra EC imports to unit values of intra EC imports.

This advantage was made use of through looking into imports from Eastern Europe of 22 out of 24 products which had been identified in the DG III 78 study as having been included into compensation agreements.

The analysis done and enclosed is structured as follows :

PART 1 gives a data sheet for each of 22 products indicating

- year of survey
- EC (9) consumption in 1000 t (apparent consumption/
multiclient study basis)
- Imports from
 - . Eastern European countries/value and volume
 - . extra EC total/volume
 - . intra EC imports/value and volume

On this basis, the following indicators have been calculated and given in the 3 last columns :

- % volume market share for imports from Eastern Europe
- % volume market share for extra EC imports
- unit price ratio

$$X = \frac{\text{unit price for imports from Eastern Europe (EE)}}{\text{unit price for intra EC imports (EC)}}$$

PART 2 gives a synoptical view of the calculated indicators of part 1 for all the products over the time period surveyed :

- 1) % volume market share for imports from Eastern Europe
- 2) % volume market share for extra EC imports
- 3) unit price ratio $\frac{EE}{EC}$

PART 3 gives graphical representations for those particular products out of the 22 which hold an EC market share of more than 5 % in 1980

- Urea
- Ammonia
- Soda Ash
- Acrylonitrile
- Benzene
- PVC
- LDPE

It must be kept in mind that unit prices for imports from EE do not integrate a customs duty factor. This would have to be added to compare intra EC unit price competitiveness.

SYNTHESIS :

The cases where imports from EE hold high market shares in the EC (more than 5 %) in 1980 are the following in decreasing order :

PRODUCT Nimexe number	EC IMPORT VOLUME MARKET SHARES		GROWTH RATES of market shares 1976-1980	
	from EE	from extra-EC [%]	1976 = 100 EE	extra-EC
UREA 3102.15	26,03	53,35	157	227
AMMONIA 2816.10	18,42	37,12	565	221
SODA ASH 2842.31	15,23	22,43	127	147
ACRYLONITRILE 2927.10	13,94	38,82	835	579
BENZENE 2901.61	10,35	26,61	201	137
PVC 3902.41/43	9,01	18,51	429	200
LDPE 3902.03	7,81	34,49	335	174

In most cases considered in the table, imports from Eastern Europe hold a high share in extra-EC imports :

- soda ash: two thirds
- urea, ammonia and PVC: half
- acrylonitrile and benzene: more than one third of apparent consumption for 1980.

The growth of market shares has been particularly marked for acrylonitrile in general (extra EC) and for Eastern Europe particularly (579/835 respectively). For acrylonitrile, ammonia, benzene, PVC, LDPE growth of market shares for imports from Eastern Europe exceeded those for imports from extra-EC.

The most outstanding case where one could speak of a dominant position of imports from Eastern Europe is soda ash where two thirds of extra-EC imports stem from Eastern Europe.

Looking into unit prices for imports from Eastern Europe it may be said that for all thermoplastics, acrylonitrile, titanium dioxide, caustic soda, ammonia, soda ash a variable degree of underpricing seems to be practiced taking duty into account.

It has to be stressed that urea on top of the list for market share has always been priced correctly in unit price terms and taking customs into account.

This was also the case for the number 2, ammonia, in 1976 and 1977 but from 1978 to 1980 a severe underpricing excursion is noticeable which may be attributable to a compensation trade effect.

Considerable underpricing was practiced also for soda ash from 1976 to 1979 but then the situation improved partially due, probably, to an antidumping complaint.

The cases with more than 5 % market share are analysed individually and the situations are given through graphic representations. Part 3.

The graph for UREA shows that other extra-EC imports than EE imports show a higher growth. Pricing seems to be rather correct on an average (European contracts : Montedison, Klöckner).

AMMONIA shows a very strange pricing history. From 1977 to 1979 Eastern European countries have increased their EC market share for ammonia from 1,1 % to 20,0 %, by a factor of nearly 20, but they have increased their revenue only by a factor of 16 with some 30 % underpricing. As nearly all of this ammonia is of Soviet origin and much of Soviet ammonia is tied into compensation agreements (Montedison and Snamprogetti), much of this spectacular unit price decrease in 1979 is probably due to plant-product compensation imports.

With SODA ASH it is interesting to note that from 76 to 78 unit price levels for imports from Eastern Europe have been very low but have been increased in 79 and 80 probably due to an antidumping procedure.

ACRYLONITRILE shows a strong evolution of extra EC imports from 1978 on, imports from Eastern Europe catching up in 1980 which may be attributable to a compensation startup of a Montedison contract.

BENZENE shows a correct unit pricing pattern. The imports plummeting in 78/79 are certainly due to the introduction of the antilead legislation in the US when the US changed from a net seller to a net buyer.

PVC shows a unit price level for moulding PVC that is lower than liquid imports. This has led to the introduction of an antidumping complaint. Up to 1980 there are 3 agreements supposed to start : Klöckner, Uhde and Petrocarbon.

LDPE presents a rather low unit price level, particularly in 1979 but extra EC import market shares are much higher than those for imports from Eastern Europe.

In summary it may be said that imports from Eastern Europe do not present dramatic pictures. Particularly ammonia and thermoplastics should be surveyed more in depth.

Pricing policy remains the particular problem which is a problem with all planned economy countries, beyond Eastern Europe also with China and Yugoslavia and also beyond the line of products surveyed here.

This reflects, according to our assumption a lack of experience in trading on our markets for these countries, selling volume rather more than value.

The survey will be continued in the years to come.

PART 1

Data sheets for each of 22 products indicating

- year of survey
- EC (9) consumption in 1000 t (apparent consumption/multiclient study basis)
- Imports from
 - . Eastern European countries/value and volume
 - . extra EC total/volume
 - . intra EC imports/value and volume

On this basis, the following indicators have been calculated and given in the 3 last columns :

- % volume market share for imports from Eastern Europe
- % volume market share for extra EC imports
- unit price ratio

$$X = \frac{\text{unit price for imports from Eastern Europe (EE)}}{\text{unit price for intra EC imports (EC)}}$$

PRODUCT : PROPYLENE
NIMEXE NO : 2901. 24

ECIII A4 M/81
EE Eastern Europe
EC European Communities

YEAR	EC 9 CONSUMPTION [000 t]	IMPORTS FROM			MARKET SHARES EE/EC	[%] VOLUME SHARES extn EC/EC	UNIT + PRICE RATIO
		CMEA value	EXTRA EC volume	INTRA - EC value			
1976	1912	102	651	42269	119958	665887	0,03
1977	1949	4455	28658	44508	121248	695699	1,47
1978	2097	5022	32036	136847	141360	853143	1,53
1979	2230	6050	24092	188999	245097	943212	1,08
1980	1906	17190	61468	167936	228104	737237	3,23
1981							
1982							
1983							
1984							
1985							
1986							
1987							

values : 1000 ECU
in t.

+) EE / intra EC imports

PRODUCT : BENZENE
NIMEXE NO : 2901.61 (1976-1987 : 2901.63)

ECIIA4 M/81
EE Eastern Europe
EC European Communities

YEAR	EC 9 CONSUMPTION [000 t]	IMPORTS FROM			MARKET SHARES EE/EC	[%] VOLUME UNIT +) PRICE RATIO			
		CMEA value volume	EXTRA EC value volume	INTRA EC value volume					
1976	1156	12855	53305	223014	167520	317505	5,16	19,39	0,928
1977	1015	11760	55728	288127	145102	657944	5,49	28,39	0,957
1978	1095	—	—	7198	2086	12088	0	0,66	0
1979	1200	1583	4695	5382	7854	24300	0,39	0,45	1,04
1980	1075	40517	111252	286088	299518	365360	10,35	26,61	0,93
1981									
1982									
1983									
1984									
1985									
1986									
1987									

values : [mto eur]
volume

+) EE / intra EC imports

PRODUCT : ortho XYLENE
 NIMEXE NO : 2901.65

ECIII A4 M/81

EE Eastern Europe
 EC European Community:

YEAR	EC ⁹ CONSUMPTION [000 t]	IMPORTS FROM			MARKET SHARES EE/EC	UNIT +) PRICE RATIO
		CH&EA volume	EXT/RA EC volume	INTRA - EC volume		
1976	498	1087	4413	89633	12361	52467
1977	460	1403	6490	66791	19832	83987
1978	431	1293	6436	61988	18062	85007
1979	498	1679	5444	68833	28181	88144
1980	380	760	2139	131844	20594	54905
1981						
1982						
1983						
1984						
1985						
1986						
1987						

values : 1000 EUR
 volume : [t]

+) EE / intra EC imports

PRODUCT : para XYLENE
 NIMEXE NO : 2901.67

ECIII A4 M/81

EE Eastern Europe
 EC European Communities

YEAR	EC 9 CONSUMPTION [000 t]	IMPORTS FROM			MARKET SHARES EE/EC	[%] VOLUME SHARES extm EC/EC	UNIT +) PRICE RATIO
		CHINA value volume	EXTRA EC value volume	INTRA - EC value volume			
1976	324	6202	17533	96531	279802	5,41	34,39
1977	260	4189	15859	122737	208559	6,10	47,20
1978	336	4482	21626	166834	72283	6,44	49,65
1979	382	9846	20204	177801	305966	5,29	46,41
1980	340	7024	15743	183466	86388	4,63	53,96
1981	-	-	-	-	-	-	0,99
1982	-	-	-	-	-	-	-
1983	-	-	-	-	-	-	-
1984	-	-	-	-	-	-	-
1985	-	-	-	-	-	-	-
1986	-	-	-	-	-	-	-
1987	-	-	-	-	-	-	-

values : 1000 EUR
 volume : [t]

+) EE / intra EC imports

ECII A4 M/81

EE Eastern Europe
EC European Communities

VINYLCHLORIDE MONOMER (VCM)

NIMEXE NO: 2902.31

YEAR	EC 9 CONSUMPTION [000 t]	IMPORTS FROM		MARKET SHARE EC/EE	[%] VOLUME UNIT +) PRICE RATIO
		CM EA value	EXTRA EC volume		
1976	1115	9684	40898	302144	3,82 0,76
1977	1005	8871	36185	270382	3,60 0,73
1978	1209	10554	44775	104475	323495 5,31 0,74
1979	1290	9451	26648	55123	232017 619741 2,07 4,27 0,75
1980	1110	8098	24694	31533	172771 441608 2,23 2,84 0,84
1981					
1982					
1983					
1984					
1985					
1986					
1987					

values : 1000 EUR [t]

volume

+) EE / intra EC imports

PRODUCT : METHANOL
NIMEXE NO: 2904.11

ECIII A4 M/81

EE Eastern Europe
EC European Communities

YEAR	EC 9 CONSUMPTION [000 t]	IMPORTS FROM		MARKET SHARES EE/EC	[%] VOLUME SHARES extm EC/EC	UNIT + PRICE RATIO
		CHINA value	EXTRA EC volume			
1976	1127	3622	41789	93059	27308	285959
1977	1121	5236	61218	149495	46656	423600
1978	1164	4566	51886	275737	43593	454989
1979	1401	7673	63419	484452	14374	555810
1980	1347	7039	47268	404257	101911	592942
1981						351
1982						30,01
1983						30,30
1984						0,90
1985						0,78
1986						0,92
1987						0,87

values : 1000 EUA
volume : [t]

+) EE / intra EC imports

PRODUCT :
NIMEXE NO:

ETHYLENE GLYCOL
2904.61

ECIIA4 M/81

EE Eastern Europe
EC European Communities

YEAR	EC & CONSUMPTION [000 t]	IMPORTS FROM			MARKET SHARES EE/EC		UNIT +) PRICE RATIO
		CHINA value volume	EXTRA EC value volume	INTRA EC value volume	% VOLUME EE/EC	% MARKET SHARES EE/EC	
1976	326	-	18415	79527	201213	0	5,65
1977	264	1820	6890	28825	64856	188886	0,77
1978	252	723	4189	11574	59087	196723	0,57
1979	286	140	344	9820	108492	249826	0,94
1980	270	432	1055	16534	98691	207647	0,86
1981							
1982							
1983							
1984							
1985							
1986							
1987							

values : 1000 EUA
volume : [t]

values :
volume

+) EE / intra EC imports

PRODUCT :

MALEIC ANHYDRIDE

NIMEXE NO:

2915.14

EE Eastern Europe
EC European Communities

ECIIA4 M/81

YEAR	EC 9 CONSUMPTION [000 t]	IMPORTS FROM			MARKET SHARES EE/EC		UNIT +) PRICE RATIO
		CHINA value	EXTRA EC volume	INTRA EC value	[%] VOLUME	SHARES	
1976	21	-	-	745	8270	18330	0
1977	21.6	112	254	769	9235	20327	3,56
1978	23.8	201	580	1167	8726	20441	1,27
1979	33.1	-	-	1636	15023	20594	2,44
1980	30.3	-	-	2753	13215	18196	4,90
1981	-	-	-	-	-	-	0
1982	-	-	-	-	-	-	0
1983	-	-	-	-	-	-	0
1984	-	-	-	-	-	-	0
1985	-	-	-	-	-	-	0,97
1986	-	-	-	-	-	-	0,81
1987	-	-	-	-	-	-	0

values : 1000 EUA
volume : [t]

+) EE / intra EC imports

PRODUCT :
NIMEXE NO:

PHTHALIC ANHYDRIDE

29.15.41

EE Eastern Europe
EC European Communities

ECIIA4 11/81

YEAR	EC II CONSUMPTION [000 t]	IMPORTS FROM			MARKET SHARES EE/EC	[%] VOLUME UNIT +) PRICE RATIO
		CMIA value	EXTRA EC volume	INTRA - EC volume		
1976	213	-	2583	25673	0	1,21
1977	206	-	5457	22962	0	2,65
1978	235	-	6144	22570	0	2,61
1979	218	-	8665	41230	0	3,98
1980	194	110	5913	40023	0,10	3,05
1981						1,05
1982						
1983						
1984						
1985						
1986						
1987						

values : 1000 EUA
volume : [t]

+) EE / intra EC imports

PRODUCT :

NIMEXE NO: ex 2915.59

DIMETHYL TEREPHTHALATE

ECIIA4 M/81

EE Eastern Europe
EC European Communities

YEAR	EC 9 CONSUMPTION [000 t]	IMPORTS FROM		MARKET SHARES EE/EC	VOLUME UNIT +) PRICE RATIO
		CMIA value	EXTRA EC volume		
1976	1230	-	5230	26777	54000
1977	1281	132	302	4361	34915
1978	1216	-	-	2051	38355
1979	1480	-	-	92	85351
1980	1338	-	-	2744	72351
1981					
1982					
1983					
1984					
1985					
1986					
1987					

values : 1000 EUA
: [t]

+) EE / intra EC imports

ECIII A4

M/81

PRODUCT :

NIMEX-E NO:

ACRYLONITRILE (ACN) (Volumes for UK confidential)

2927.10

EE Eastern Europe
EC European Communities

YEAR	EC & CONSUMPTION [000 t]	IMPORTS FROM			MARKET SHARES EE/EC	[%] VOLUME SHARES EXTRA EC	UNIT +) PRICE RATIO
		CMEA value	EXTRA EC volume	INTRA - EC value			
1976	242	1666	4037	16240	62730	103794	1,67
1977	230	2267	5656	13730	56624	96749	2,46
1978	250	3166	9477	46297	58328	119038	3,79
1979	255	10500	12496	84480	97841	128694	4,90
1980	235	16129	(32759)xx	91235	68903	108233	(13,94)
1981							(38,82)
1982							0,77
1983							
1984							
1985							
1986							
1987							

values : 1000 EUA
volume : [t]xx) adapted for UK
value → volume
in the no EU imports from class 3

PRODUCT :

CAPROLACTAM

(UK: volume and values confidential)

NIMEXE NO:

ex 2935.91

ECII A4

M/81

EE Eastern Europe
EC European Communities

IMPORTS FROM

EXTRA EC

INTRA EC

value volume value

YEAR	EC ² CONSUMPTION [000 t]	IMPORTS FROM			MARKET SHARES EE/EC	VOLUME UNIT +) PRICE RATIO
		CHINA	value	volume		
1976	180	3156	4062	8029	123542	108002
1977	195	1519	1795	1085	141992	118401
1978	180	1674	2424	6591	108674	96529
1979	190	1175	1332	5661	208538	170943
1980	165	492	437	4275	144335	92948
1981						
1982						
1983						
1984						
1985						
1986						
1987						

values : 1000 EUR
volume : [t]

+) EE / intra EC imports

PRODUCT : UREA
NIMEXE NO: 3102.15

ECIII A4 11/81

EE Eastern Europe
EC European Communities

YEAR	EC 9 CONSUMPTION [000 t]	IMPORTS FROM			MARKET SHARES EE/EC	[%] VOLUME UNIT +)
		CHINA value	EXTRA EC volume	INTRA - EC value		
1976	310	4999	51310	72924	29784	270505
1977	330	7690	79520	116173	31181	282453
1978	335	5637	58633	10927	33985	295189
1979	340	9656	75764	168199	51981	412895
1980	330	10827	85894	176062	57829	392611
1981						
1982						
1983						
1984						
1985						
1986						
1987						

values : 1000 EUA
volume : [t]

+) EE / intra EC imports

ECII A4 M/81

EE Eastern Europe
EC European CommunityPRODUCT : POLYETHYLENE, LOW DENSITY
NIMEXE NO : 3902.03 (FORMASSEN / MOULDING / MOULAGE)

YEAR	EC ^a CONSUMPTION [000 t]	IMPORTS FROM		MARKET SHARE S EE/EC	VOLUME UNIT +) PRICE RATIO
		CMEA volume	EXTRA EC volume		
1976	740	6604	17241	521888	1008688
1977	801	11104	33329	543289	1115274
1978	849	11521	36019	191881	571429
1979	965	18250	45175	237768	939460
1980	880	37750	68683	303503	1025484
1981					
1982					
1983					
1984					
1985					
1986					
1987					

values : 1000 EUR
volume : [t]

+) EE / intra EC imports

PRODUCT : POLYETHYLENE, HIGH DENSITY
 NIMEXE NO : 3902.04 (Houlding)
 3902.05 (Liquid ch.)

EE Eastern Europe
 EC European Communities

ECIII A4 M/81

YEAR	EC & CONSUMPTION [000 t]	IMPORTS FROM			MARKET SHARES			UNIT +)
		CMIA	EXTRA EC	INTRA - EC	EE / EC	extm EC / EC	PRICE RATIO	
1976	408	972	2295	40319	179264	304977	> 0,67	> 13,23
1977	367	233	444	15713	61884	107185	> 0,53	0,91
1978	369	415	922	42484	186227	310182	> 1,24	0,75
1979	369	294	1036	10267	64099	16409	> 20,60	0,49
1980	415	760	2153	51689	195838	395033	> 1,72	0,62
1981	395	415	779	2422	59044	107665	> 22,43	0,59
1982	415	395	1301	2839	63391	397960	> 3,84	0,62
1983	415	395	2086	4313	2971	107952	> 33,30	0,66
1984	4554	395	3314	7271	84254	372539	> 3,84	0,57
1985	4554	415	4554	8009	47268	90759	> 101415	0,64
1986	4554	415	4554	8009	47268	90759	> 33,30	
1987	4554	415	4554	8009	47268	90759	> 101415	

values : 1000 EUA
 volume : [t]

+) EE / intra EC imports

PRODUCT :

NIMEXE NO:

POLY PROPYLENE (PP)

3902.21 (MOLLADE / Moulding / FORMASSEN)
3902.22 (Liquid ch.)

ECIII A4

M/81

EE Eastern Europe
EC European Community.

EE

EC

EE

MARKET SHARES

ext. EC/EC

UNIT +)

PRICE

RATIO

YEAR	EC 9 CONSUMPTION [000 t]	CHINA value volume	IMPORTS FROM EXTRA EC volume	INTRA - EC value volume	[%] VOLUME MARKET SHARES EE/EC	[%] VOLUME SHARES ext. EC/EC	UNIT +)	PRICE RATIO
1976	163	124	333	34766	75272	128288	> 0,39	> 37,77
1977	182	115	306	26774	19232	33504	0,56	0,66
1978	227	452	—	31312	81630	153148	0	0,86
1979	280	287	208	21394	24242	50245	0,64	0,74
1980	265	227	372	12036	106613	238322	> 0,64	> 15,97
1981	—	1924	356	34615	34615	24087	0,75	0,75
1982	—	819	314	39965	207511	344132	> 0,63	> 27,57
1983	—	—	350	37237	46772	77455	0,73	0,77
1984	—	—	840	56129	216134	343370	0,73	0,68
1985	—	—	28483	47732	74726	0	> 31,93	0,68
1986	—	—	—	—	—	—	—	—
1987	—	—	—	—	—	—	—	—

values : 1000 EUR
volume : [t]

+) EE / intra EC imports

PRODUCT :
NIMEXE NO :

POLY STYRENE (PS)

3902.32

ECIII A4 M/81
EE Eastern Europe
EC European Communities

YEAR	EC ^a CONSUMPTION [000 t]	IMPORTS FROM			MARKET SHARES			UNIT +) PRICE RATIO
		CMIA value	EXTRA EC volume	INTRA - EC value	EE / EC extra EC	VOLUME [%]		
1976	440	1300	2832	14911	356141	582175	0,64	3,39
1977	430	1338	3555	15167	409465	655811	0,83	3,53
1978	470	1248	3916	16426	392556	681274	0,83	3,50
1979	510	2397	4488	33794	557843	685418	0,88	6,63
1980	480	2070	3684	34454	593174	676671	0,77	7,18
1981								
1982								
1983								
1984								
1985								
1986								
1987								

values
volume

: 1000 EUA
[t]

+) EE / intra EC imports

PRODUCT:

POLY VINYL CHLORIDE (PVC)
NIMEXE NO: 3902.41 (FORMASSEN/MOULDING /MONGAGE)
+ 3902.43 (liquid, granulated etc.)

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(PVC)

A1/81

EE Eastern Europe
EC European Communities

YEAR	EC 9 CONSUMPTION [000 t]	IMPORTS FROM			MARKET SHARE S EC/EE	VOLUME + UNIT PRICE RATIO
		CHINA value	EXTRA EC volume	INTRA EC value		
1976	956	3647	28860	110112	> 2,10	> 9,25
1977	963	4143	10581	316199	> 6,12	> 0,67
1978	1005	8312	22355	95147	> 16,38	> 0,75
1979	1050	8609	21535	79159	> 163858	> 0,64
1980	1030	17598	25748	50635	> 367298	> 0,76
1981	1030	23540	12182	33018	> 106261	> 699423
1982	-	-	-	-	> 188168	> 1,195
1983	-	-	-	-	> 5,85	> 11,31
1984	-	-	-	-	> 689354	> 0,60
1985	-	-	-	-	> 212715	> 0,73
1986	-	-	-	-	> 639	> 0,61
1987	-	-	-	-	> 215987	> 16,71
					> 723732	> 0,72
						> 18,51
						> 0,74
1982	-	-	-	-		
1983	-	-	-	-		
1984	-	-	-	-		
1985	-	-	-	-		
1986	-	-	-	-		
1987	-	-	-	-		

values : 1000 EUR
volume : [t]

values :
volume

+) EE / intra EC imports

ECIIA4

M/81

CAUSTIC SODA (NaOH)

PRODUCT :

NIMEXE NO: 2817.15 (wss. less: / aqueous sol. / sol. aqueous) △

EE Eastern Europe
EC European Communitiesvalues : [t]
volume : [t] EUA

YEAR	ECI 9 CONSUMPTION [000 t]	IMPORTS FROM		MARKET SHARES EE/EC	VOLUME UNIT +) PRICE RATIO
		CMIA value	EXTRA EC volume		
1976	2603	-	25667	2,5972	0,99
1977	2514	1290	32871	67088	1,28
1978	2730	2192	55872	102821	2,05
1979	2746	2262	57914	147513	4,4993
1980	2417	4331	83930	163206	63231
1981					
1982					
1983					
1984					
1985					
1986					
1987					

+) EE / intra EC imports

concentration ?

PRODUCT :
NIMEXE NO : 2816.10

AMMONIA , Anhydrous

ECIII A4 M/81

EE Eastern Europe
EC European Communities

YEAR	EC 9 CONSUMPTION [000 t]	IMPORTS FROM			MARKET SHARES EE/EC	[%] VOLUME UNIT +) PRICE RATIO
		CMIA value	EXTRA EC volume	INTRA EC value		
1976	1819	6116	59360	305211	66708	557322
1977	1835	2217	20411	257369	79112	685851
1978	1880	14626	165641	573078	63120	557608
1979	2122	36165	425233	789566	80923	549213
1980	2051	48504	378971	763457	109839	586279
1981						
1982						
1983						
1984						
1985						
1986						
1987						

values : 1000 EUA
volume : [t]

+) EE / intra EC imports

PRODUCT : TITANIUM DIOXIDE
NIMEXE NO: 2825.00

EE Eastern Europe
EC European Communities

ECIIA4 11/81

YEAR	EC 9 CONSUMPTION [000 t]	IMPORTS FROM		MARKET SHARES EE/EC	VOLUME UNIT +) PRICE RATIO
		CMIA volume	EXTRA EC volume		
1976	190	1613	3229	12062	81555
1977	203	1121	2127	11975	75426
1978	230	1024	2143	22392	76792
1979	234	1034	1773	24373	84591
1980	224	1172	1720	16499	84148
1981					83295
1982					0,76
1983					1,05
1984					0,93
1985					0,74
1986					0,74
1987					0,74

values : 1000 EUR
volume : [t]

) EE / intra EC imports

PRODUCT : SODA ASH
NIMEXE NO: 2842.31

(Na₂CO₃)

ECII A4 11/81

EE Eastern Europe
EC European Community

YEAR	EC ^a CONSUMPTION [000 t]	IMPORTS FROM			[%] VOLUME MARKET SHARES EE/EC		UNIT +) PRICE RATIO
		CMIA value volume	EXTRA EC value volume	INTRA - EC value volume	extra EC volume		
1976	1388	9113	166600	212519	16347	171181	12,00
1977	1383	11256	196908	237150	14337	144945	14,24
1978	1321	11790	202018	242031	15751	160459	15,29
1979	1379	14048	204687	267396	21447	208023	14,84
1980	1383	19405	210675	310185	38043	338293	15,23
1981							
1982							
1983							
1984							
1985							
1986							
1987							

values : 1000 EUA
volume : [t]

+) EE / intra EC imports

PART 2

Synoptical view of the calculated indicators
of part 1 for all the products over the time
period surveyed 1976-1980.

1 : % volume market share for imports
from Eastern European countries.

2 : % volume market share for extra EC imports.

3 : unit price ratio $\frac{\text{EE}}{\text{intra EC}}$

PRODUCT [] duty %	1976	1977	1978	1979	1980	1981	1982
METHYLENE							
2901.24	1 2 [0] 3	0,03 2,2 0,870	1,47 2,3 0,892	1,53 6,53 0,943	1,08 8,47 0,966	3,23 8,81 0,904	
BENZENE							
2901.61	1 2 [0] 3	5,16 19,39 0,928	5,49 28,39 0,957	0 0,66 0	0,39 0,45 1,04	10,35 26,61 0,93	
o-XYLENE							
2901.65	1 2 [0] 3	0,89 17,94 1,05	1,41 14,52 0,92	1,49 14,38 0,95	1,09 13,82 0,96	0,56 34,70 0,95	
para - XYLENE							
2901.67	1 2 [0] 3	5,41 34,39 1,03	6,10 47,20 0,97	6,44 49,65 0,94	5,29 46,41 1,04	4,63 53,96 0,99	
VCM							
2902.31	1 2 [14] 3	3,67 3,82 0,76	3,60 3,61 0,73	3,70 5,31 0,74	2,07 4,27 0,75	2,23 2,84 0,84	
Vinylchloride Monomer							
METHANOL							
2904.11	1 2 [13,9] 3	3,71 8,26 0,91	5,46 13,34 0,78	4,46 23,69 0,92	4,53 30,30 0,90	3,51 30,01 0,87	
ETHYLENE GLYCOL							
2904.61	1 2 [15,1] 3	0 5,65 0	2,61 10,94 0,77	1,66 4,59 0,57	0,12 3,43 0,94	0,39 6,15 0,86	
MALEIC ANHYDRIDE							
2915.17	1 2 [10,1] 3	0 3,55 0	1,17 3,56 0,97	2,44 4,90 0,81	0 4,94 0	0 9,10 0	
PHTHALIC ANHYDR.							
2915.40	1 2 [13,9] 3	0 1,21 0	0 2,65 0	0 2,61 0	0 3,98 0	0,10 3,05 1,05	
DMT							
ex 2915.59	1 2 [10,8] 3	0 0,43 0	0,025 0,36 1,01	0 0,17 0	0 0,005 0	0 0,21 0	

PRODUCT		1976	1977	1978	1979	1980	1981	1982
ACRYLONITRILE								
2927.10	1	1,67	2,46	3,79	4,90	13.94		
[14,4]	2	6,81	5,97	18,52	33,13	(38,82)		
	3	0,71	0,68	0,68	(138,92)	0,77	x	
CAPROLACTAM								
ex 2935.91	1	2,26	1,24	1,35	0,70	0,27		
[7,3]	2	4,46	6,96	3,66	2,98	2,59		
	3	0,68	0,71	0,61	0,73	0,73	x	
UREA								
3102.15	1	16,55	24,08	17,50	22,11	26,03		
[12,1]	2	23,52	35,20	33,11	47,71	53,35		
	3	0,88	0,88	0,84	0,81	0,86	x	
LDPE								
3902.03	1	2,33	4,16	4,24	4,68	7,81		
[14,7; 16,2]	2	19,81	17,82	22,60	24,64	34,49		
	3	0,74	0,68	0,69	0,59	0,69	x	
Low Dens. Polyethylene								
HDPE								
[14,7; 16,2]	1	0,67	0,53	1,24	1,72	3,87		
3902.04 *	2	13,73	14,37	20,60	22,43	33,30		
3902.05 **	3	* 0,72	0,75	0,62	0,62	0,57		
High Density PE		** 0,91	0,49	0,59	0,66	0,64	x	
PP								
[16,2]	1	0,39	0,56	0,64	0,63	0,73		
3902.21 *	2	37,77	28,96	15,97	27,57	31,93		
3902.22 **	3	* 0,63	0,86	0,74	0,67	0,68	x	
Polypropylene		** 0,66	0	0,75	0,77	0		
PS								
3902.32	1	0,64	0,83	0,83	0,88	0,77		
[14,7/16,2]	2	3,39	3,53	3,50	6,63	7,18		
	3	0,75	0,60	0,55	0,66	0,64	x	
Polystyrene								
PVC								
[14,7; 16,2]	1	2,10	4,56	5,85	6,39	9,01		
3902.41 *	2	9,25	11,95	11,31	16,71	18,51		
3902.43 **	3	* 0,67	0,64	0,60	0,61	0,64	x	
Polyvinylchloride		** 0,75	0,76	0,61	0,72	0,74	x	
TITANIUM DIOXIDE								
2825.00	1	1,70	1,05	0,93	0,76	0,77		
[8,3]	2	6,35	5,90	9,74	10,42	7,34		
	3	0,67	0,71	0,64	0,67	0,67	x	
CAUSTIC SODA								
2817.15	1	0	1,28	2,05	2,09	3,47		
[12,5]	2	0,99	2,61	3,77	5,37	6,92		
	3	0	0,78	0,78	0,79	0,80	x	

PART 3

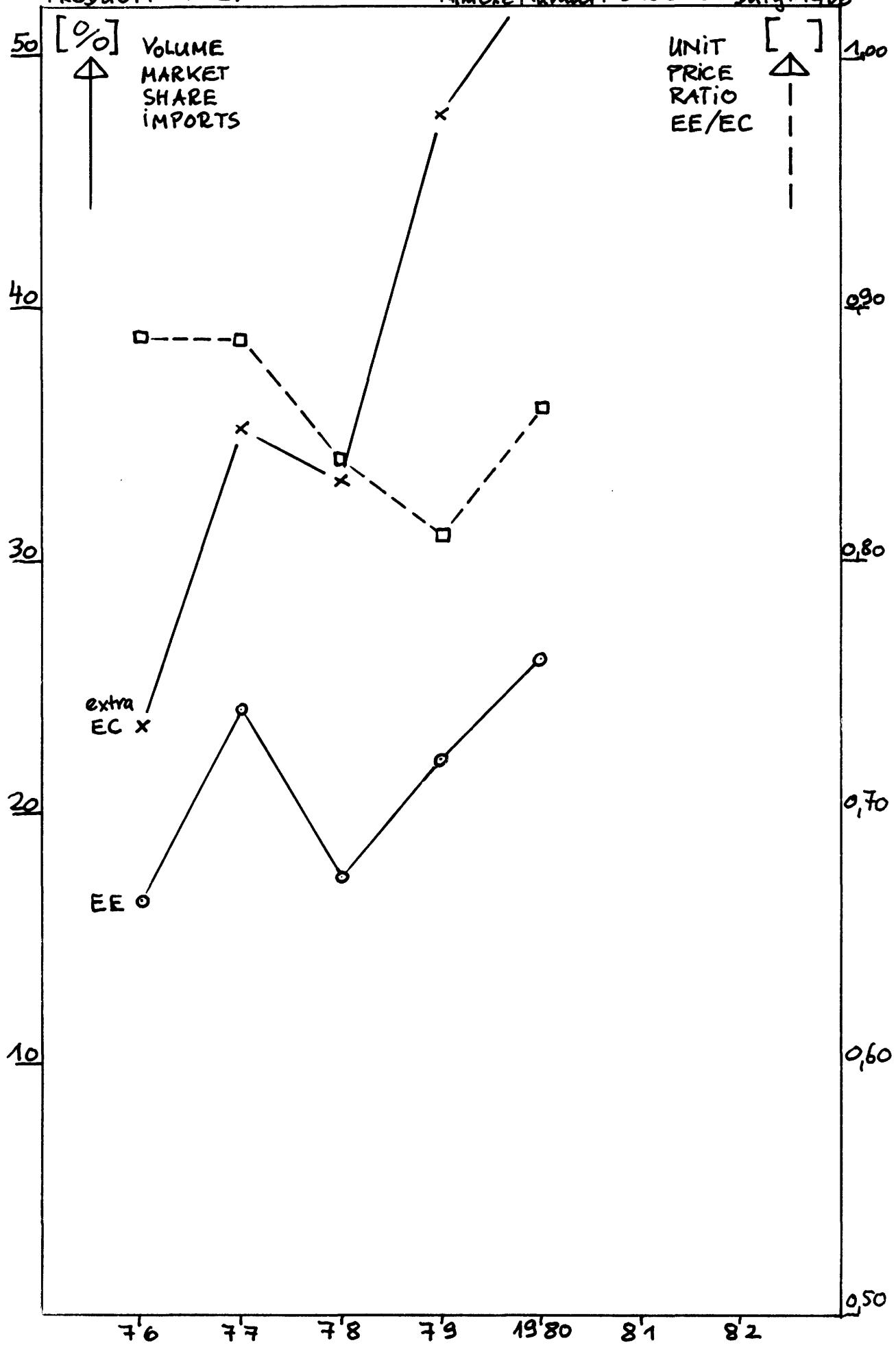
Graphical representation of market shares and unit pricing ratios for chemical imports from Eastern European countries.

Products tied into compensation agreements and holding an EC market share of over 5 % of intra EC apparent consumption.

Survey 1976 - 1980.

PRODUCT: UREA

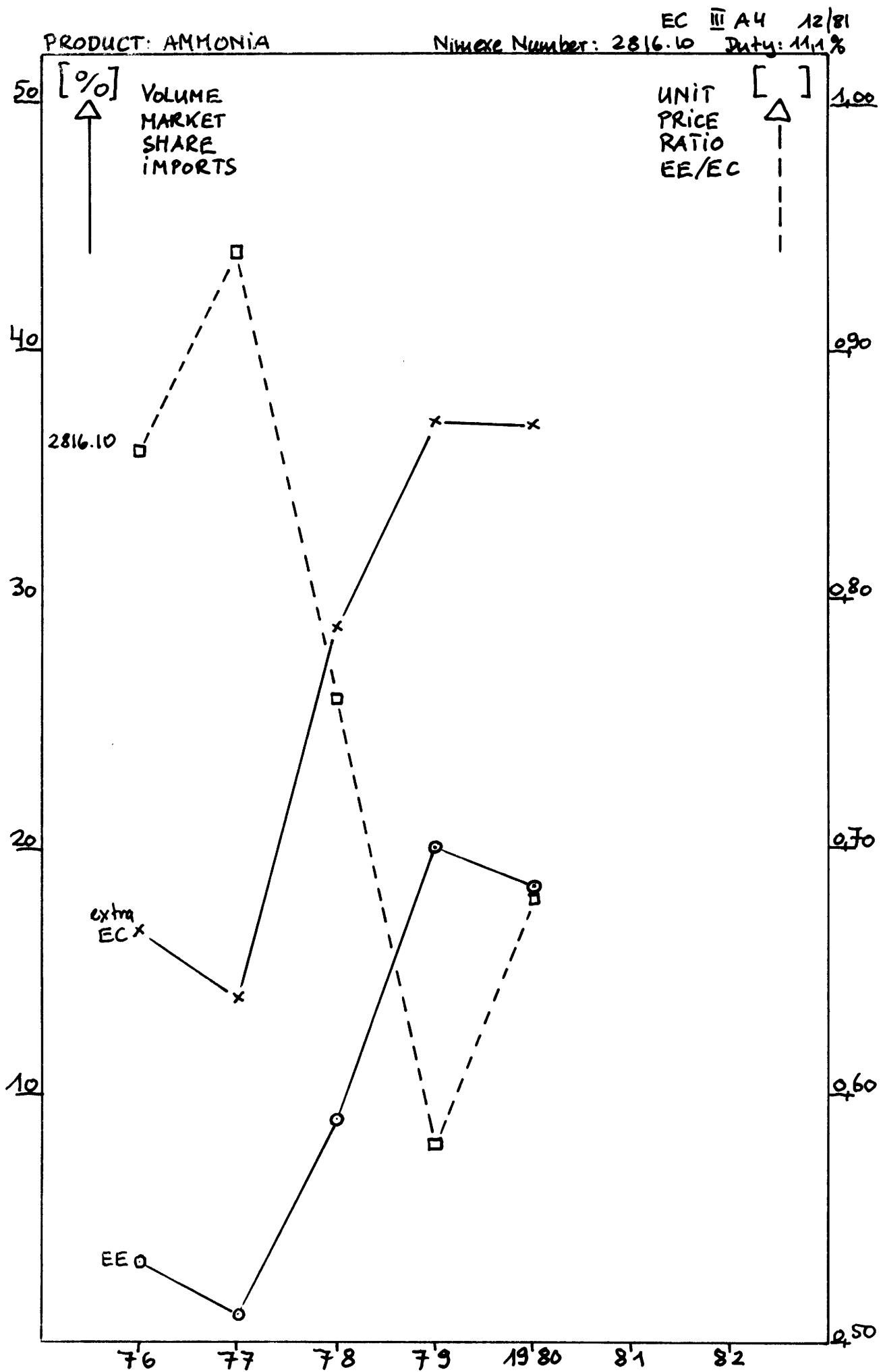
Nimex Number: 3102.15 Duty: 12,12%
EC III A4 12/81



PRODUCT: AMMONIA

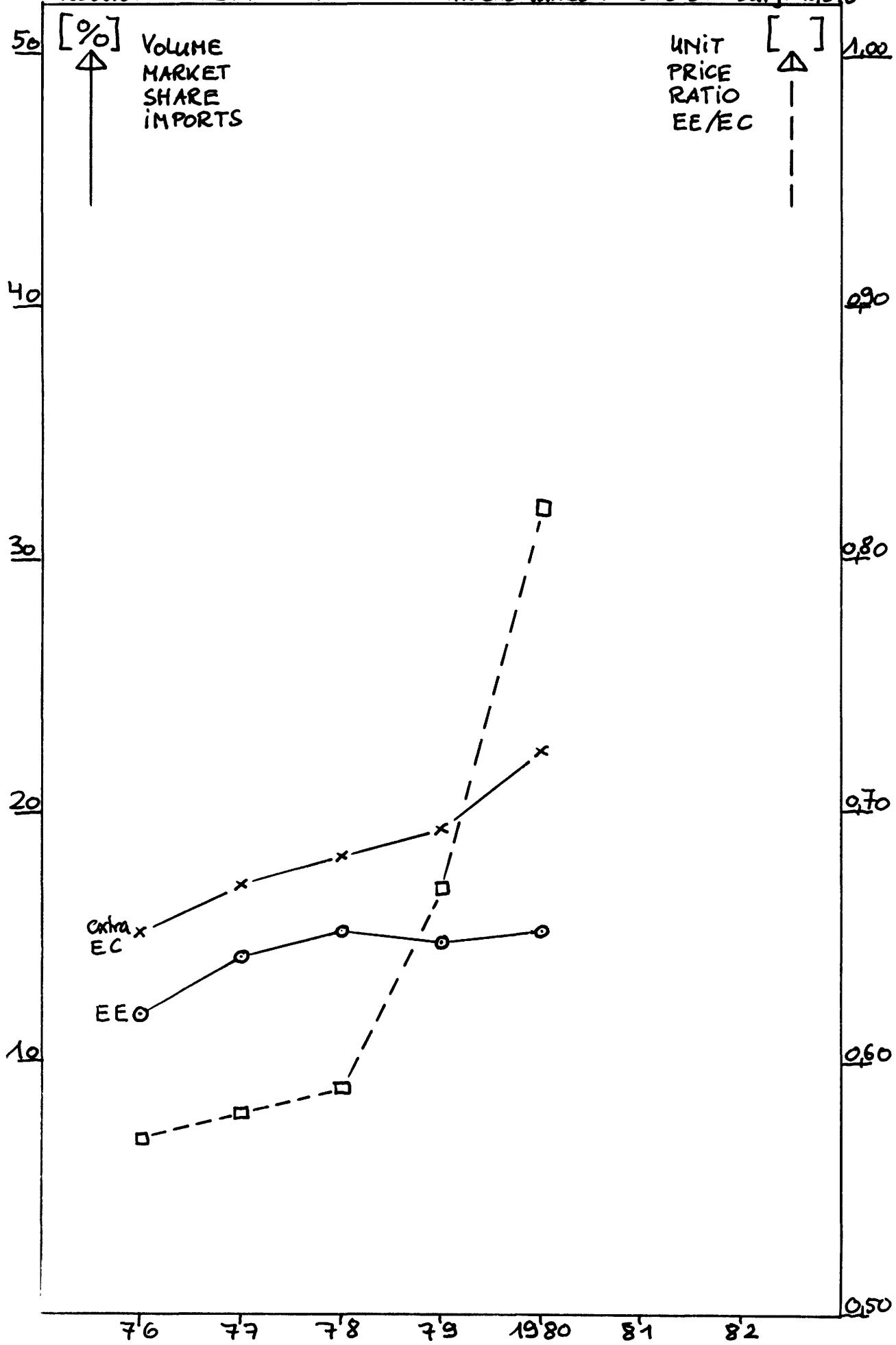
Nimex Number: 2816.10 Duty: 11.1%

EC III A4 12/81



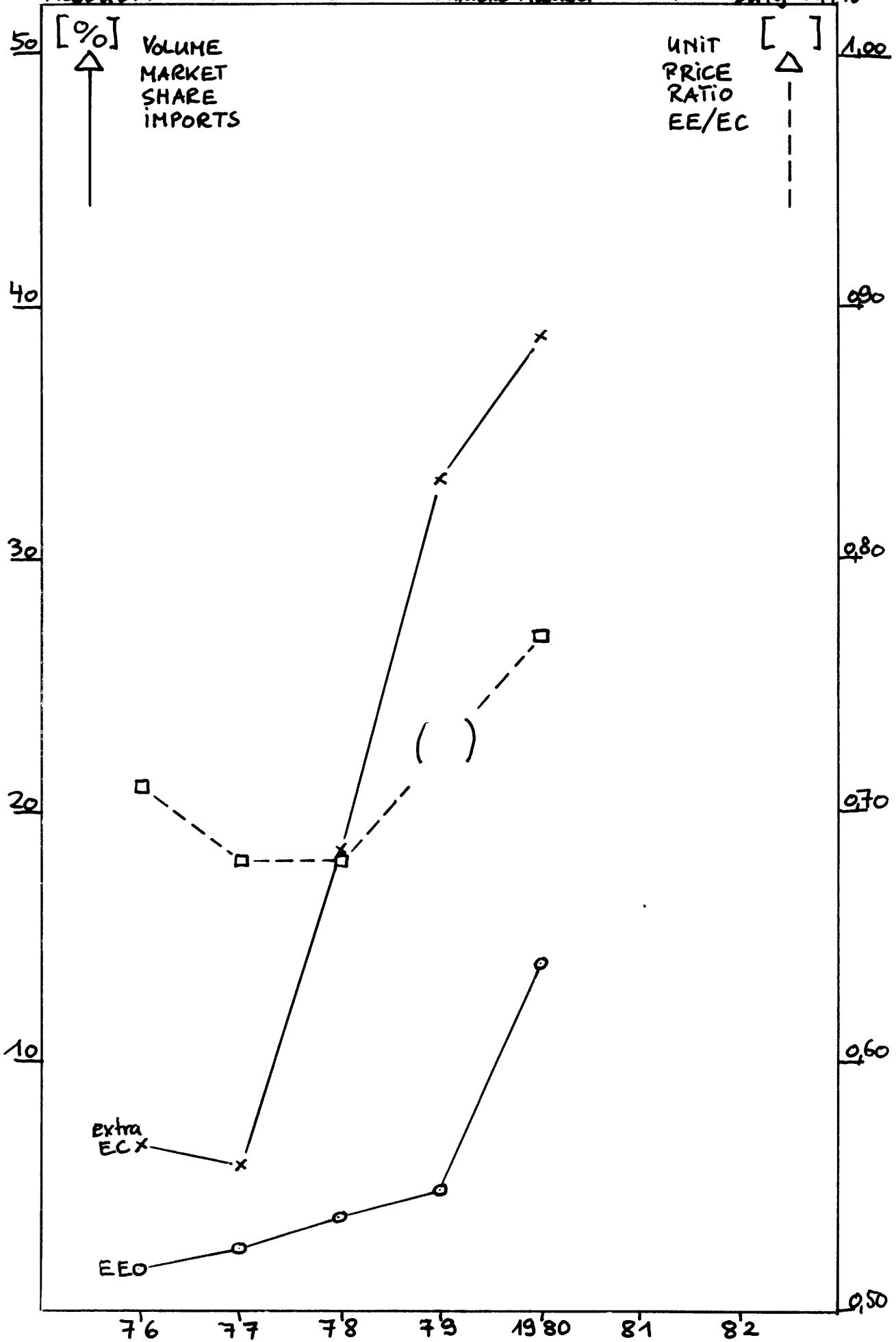
PRODUCT: SODA ASH

EC III A 4 12/81
Nimex Number: 2842.31 Duty: 10.3%



PRODUCT: ACRYLONITRILE

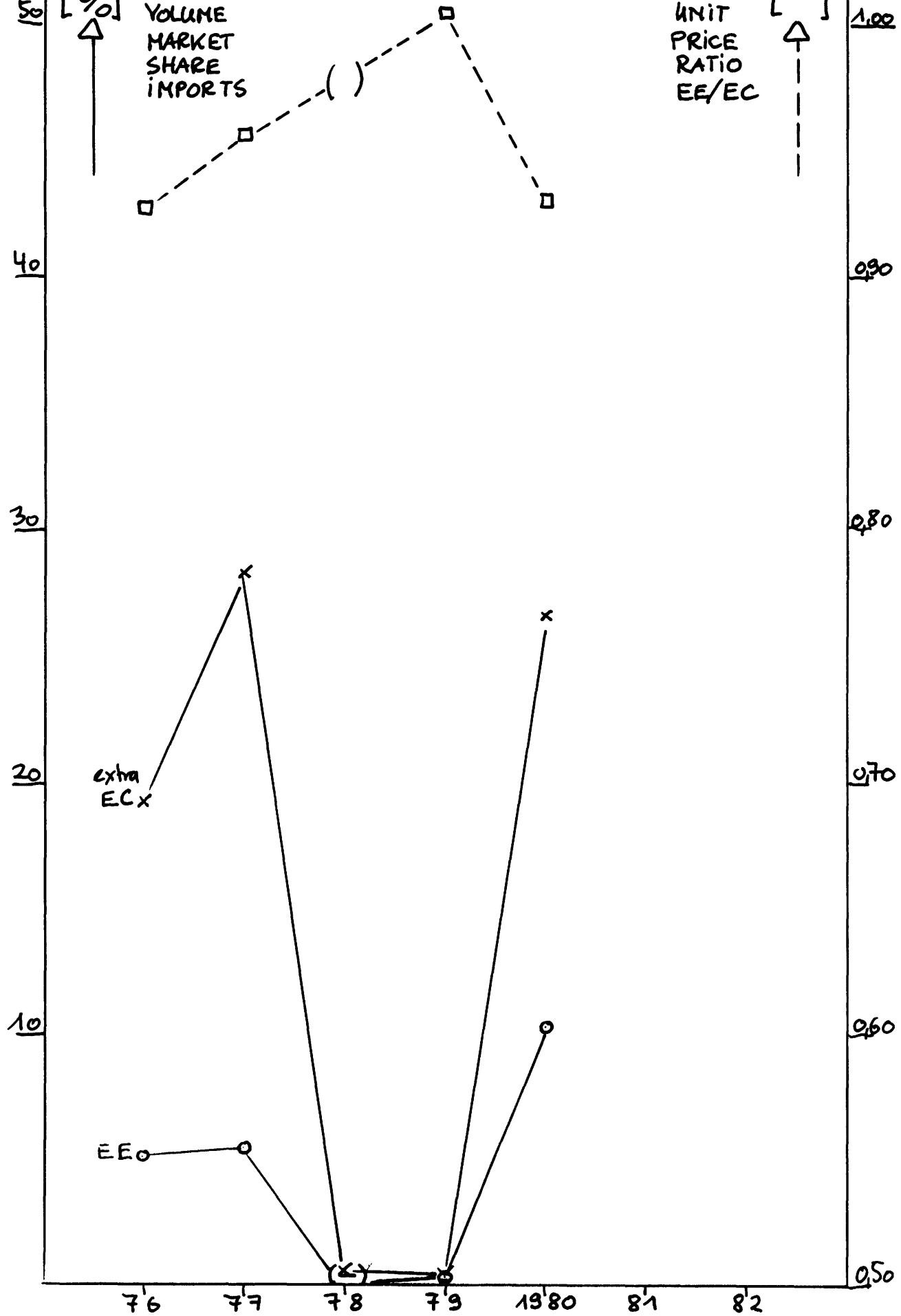
Nimex Number: 2927.10 Duty: 14,4%
EC W/A4 12/81



PRODUCT: BENZENE

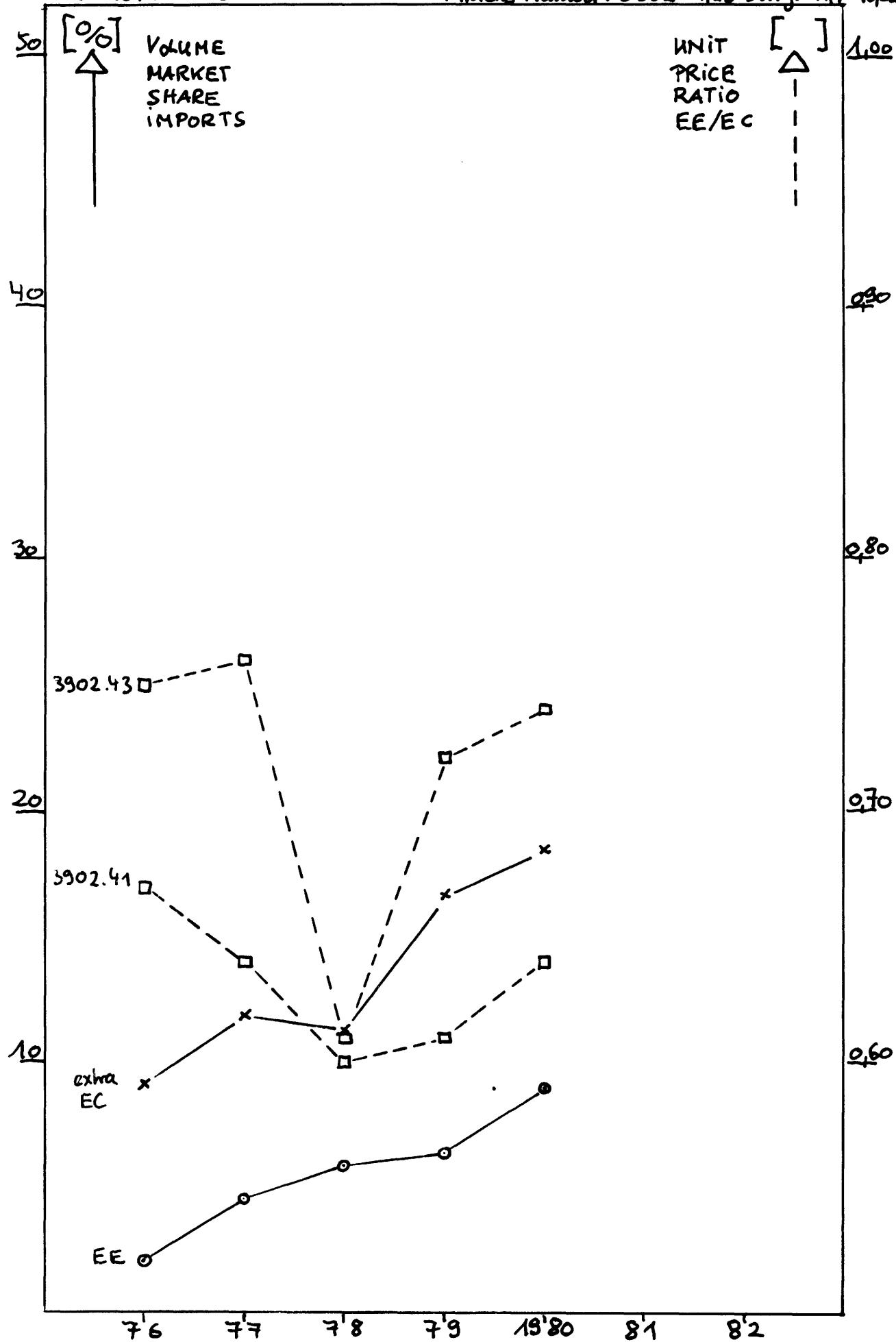
Nimex Number: 2901.61 Duty: 0%

EC III A4 12/81



PRODUCT: PVC

EC IIIA4 12/81
Nimex Number: 3902.41/43 Duty: 14.7+16.2%



PRODUCT: LDPE

Nimex Number:

EC IIIA4 12/81

Duty 14.7%

