

$\langle C_5 \rangle$

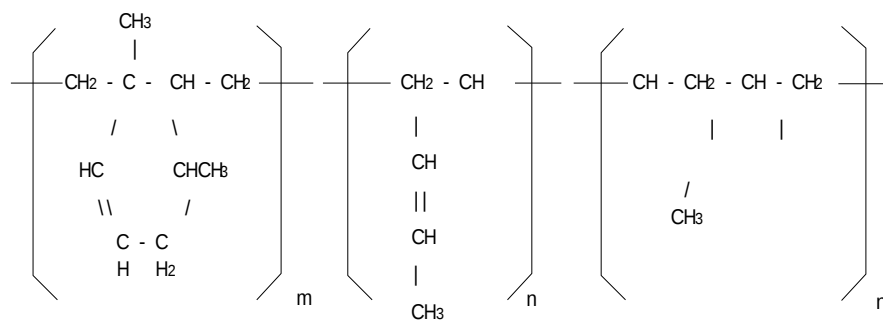
C5

■ ■ ■

The diagram illustrates the chemical processing of various feedstocks. The feedstocks are LPG, C1~C4, BTX, C6~C9, and Recracking. These feedstocks are processed through units like NCC and C5 to produce products such as C10, C5, Pentadiene, Di-olefin, Mono-olefin, and 37. The diagram also shows the production of Isoprene, Dicyclopentadiene, and Cyclopentene, 1, 3-.

C_5 C_5 , C_9
 C_9 , C_5C_9

1 .

$$\frac{1}{C_5} C_5 \quad C_9$$


C5
Hotmelt
가
C9
CR
가
C5C9

가

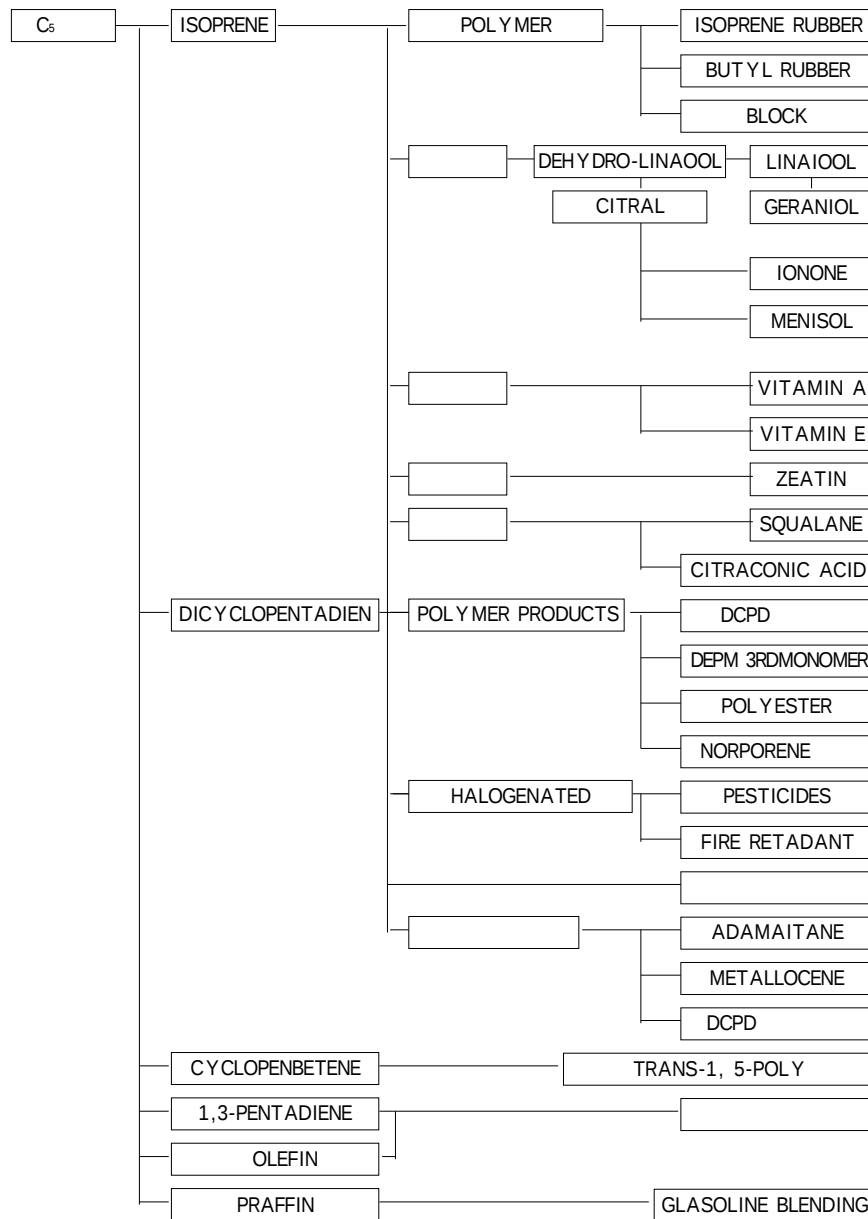
C5 (C5, C9) --- --- --- --- ---

---袋詰---

C5 Exxon Chemical, Hercules, Goodyear Tire & Rubber, Vesidol Chemical, Neville Chemical C5 Esso Chemie가 , C5

7 Hercules Neville-Cindu, ICI가 44 , 三井石油化學 1 1000 , 土戸石油化學 2 1000 , Joyo Soda 1 5000 , 日本石油, 東燃化學, 住友化學, 丸善石油化學, 三菱化學 12 3850 (91)

2 C5



가

C5

Aliphatic
KG
280 ~ 300

1 39

C5

가

1

가 1340

, 가

C5

KG

52.39

가

71.02

2869

C5

1KG

Plant Gate Cost가 9971 가
 1 100%가 C5 KG 116.62 , 75% 가
 138.34 , 50% 가 181.74 가가
 KG 139.00 C5 가
 75% 가

1 가 1630 , 1KG 가 49.47
 , 75.10 30.09 C5 1KG
 112.09
 100%가 131.03 , 75%가 158.65

가 1 가 1750 , KG 가 83.75 , 25.33
 C5 1KG 142.03

100% 가 165.71 가가 , 75% 가
 193.60 , 50%가 249.32 C5
 75% 가
 C5

C5

1 C5 가 (: 100 ,1000M/TM,

	10	20	40	10	20	40	10	20	40
\Battery limits	5.8	8.2	11.8	7.0	9.9	14.3	7.5	10.7	15.3
Off-Sites	7.6	11.1	16.3	13.4	13.4	19.7	10.0	14.3	21.2
	13.4	19.3	28.1	23.3	16.3	23.3	17.5	25.0	36.5
	69.13 (18.92) 2.18	69.13 (18.92) 2.18	69.13 (18.92) 2.18	64.18 (17.70) 2.99	64.18 (17.70) 2.99	64.18 (17.70) 2.99	107.20 (27.49) 4.04	107.20 (27.49) 4.04	107.20 (27.49) 4.04
가	52.39	52.39	52.39	49.47	49.47	49.47	83.75	83.75	83.75
	1.74 1.17 11.64 1.74 2.34	1.23 0.57 5.82 1.23 1.17	0.88 0.29 2.91 0.88 0.57	2.09 1.65 16.49 2.09 3.31	1.50 0.82 8.25 1.50 1.65	1.08 0.42 4.12 1.08 0.82	2.27 1.61 15.98 2.27 3.20	1.61 0.79 8.00 1.61 1.61	1.15 0.40 3.99 1.15 0.79
	71.02	62.41	57.92	75.10	63.19	56.99	109.08	97.37	91.23
Plant overhead	12.57	6.57	3.51	17.50	9.10	4.81	12.87	6.72	3.57
Texes and insurance	2.69	1.92	1.41	3.24	2.34	1.70	2.62	1.87	1.37
Depreciation	13.43	9.63	7.03	16.25	11.64	8.49	17.46	12.52	9.13
Plant gate cost	99.71	80.53	69.87	112.09	86.27	71.99	142.03	118.48	105.30
G*A,sales,res,10%	16.91	13.73	11.82	18.94	14.79	12.32	23.68	19.69	17.28
가 100%	116.32	94.26	81.69	131.03	101.06	84.31	116.62	94.26	81.69
가 75%	138.34	108.57	91.78	158.63	118.65	96.31	138.34	108.57	91.78
가 50%	181.74	137.07	111.90	213.80	153.84	120.33	181.74	137.07	111.90

()가
C5
三井
石油化學
92 7
, 150
1 2000

77 1 C9 91 8000
 92 C5 C9 , ,
 C5 , 92
 8100 5600 , 2500 ~ 3000 ,
 600 ~ 700

2 C5 (: M/T)

			1992	1993
(OSA)			960	960
			960	960
			360	480
			360	240
			360	1,440
			—	300
			1,200	1,200
(MMRM)			1,000	1,200
			1,200	840
			300	600
(HMA)		HOTMELT	—	72
		HOTMELT	—	48
		HOTMELT	—	48
		HOTMELT LAMINATIN	—	240
TIRE		TIRE	300	240
		TIRE	300	240
		TIRE	60	72
			6,220	7,884

) 93

Stock Sale 500
 93 Hercules 40
 50
 40
 92 412 93 10 577
 Stock Sale 30
 ..

3 C5 (가) (: KG,)

	1988		1989		1990		1991		1992	
	4,256,140	3,960,891	4,860,126	4,727,298	4,814,691	4,847,838	4,361,085	4,800,058	6,459,500	6,445,875
	190,750	345,068	832,285	879,851	1,818,642	1,873,256	1,590,056	1,710,550	1,411,560	1,679,081
	24,200	34,865	32,920	62,918	45,600	82,638	140,800	233,105	24,100	47,492
	30,600	77,441	36,400	79,036	13,000	32,923	124,575	260,959	112,075	219,339
	245,768	287,068	513,761	630,551	1,077,717	1,223,027	1,800,939	2,200,960	2,118,582	2,764,595
	16,000	10,306	—	—	—	—	82,500	54,638	17,500	10,125
	—	—	4,781	9,734	—	—	—	—	—	—
	—	—	—	—	16,500	13,200	—	—	—	—
	—	—	—	—	—	—	24,000	14,110	—	—
	—	—	31,000	16,335	122,020	63,176	34,000	28,430	—	—
	4,763,458	4,715,639	6,311,273	6,405,723	7,908,170	8,136,058	8,157,955	9,303,100	10,143,317	11,166,510

C5 20 , 가 FOB Japan
 900~1000 , Quintone Hercules KG 950~1200
 가 10% 가 C5 가 1200 ,
 2000 가
 C5 8100 1 2000
 가 가
 KG 150~200
 Grade가 60
 가
 ,
 (Monomer) , 官能基
 가 가
 가
 C5
 가

4 EPS

	1989	1990	1991	1992	
	20,000	30,000	30,000	40,000	92 4 1
	75,000	75,000	75,000	75,000	
	30,000	30,000	30,000	30,000	
BASF	35,000	50,000	50,000	50,000	
	—	—	—	30,000	92 2 가
	—	—	—	30,000	92 1 가

6 EPS PENTANE (: M/T)

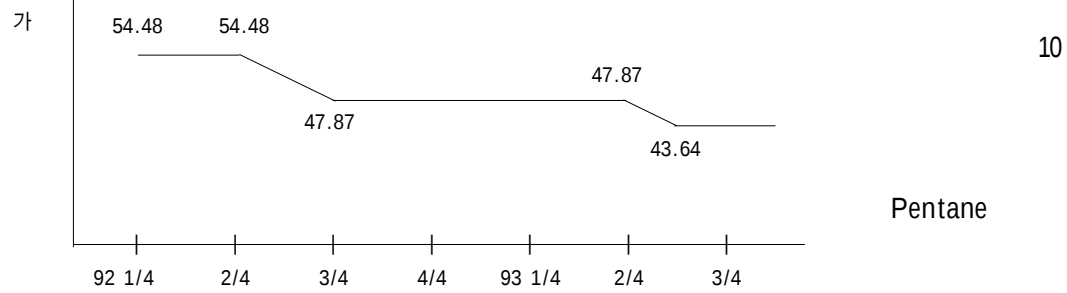
	1989	1990	1991	1992
	1,600	2,400	2,400	3,200
	6,000	6,000	6,000	6,000
	2,400	2,400	2,400	2,400
B A S F	2,800	4,000	4,000	4,000
	—	—	—	2,400
	—	—	—	2,400
	12,800	14,800	14,800	20,400

PENTANE

Pentane C5 가 NCC
 Isoprene Pentane
 , 92
 6000
 92 Pentane 1 5000 74%
 6000 26%
 Pentane EPS 3200 , 6000 , 2400 ,
 4000 , 2400 , 2400 2 400
 3
 Pentane EPS 4 , 7 5000 ,
 3 25 5000 EPS 1 0.08 Pentane ,
 Pentane 2 400 . EPS 91
 18 5000 92 25 5000 38.8% 가
 Pentane EPS

가

3 VITAMINE E 가 (: /KG) 2 400



Pentane

Pentane

C5

Normal Pentane

가가

VITAMINE E(αTOCOPHEROL)

, tocol

4

Vitamin E 40%

가

Eastman Kodak, Henkel

Eastman Chemical,

Hoffmann-LaRoche, BASF,

日本

日清製粉

Tocopherol 4

92 1700 , 575

가 KG 1 ~1

1000 가

5 Vitamine E (가) (: KG,)

	1988		1989		1990		1991		1992	
	70,810	1,187,441	83,883	1,601,719	102,624	1,870,140	125,683	2,776,036	149,251	3,837,343
	5,400	104,200	12,050	229,153	13,650	253,853	14,850	302,636	23,450	550,228
	20	2,500	—	—	—	—	—	—	—	—
	50	1,150	—	—	—	—	—	—	—	—
	1,700	39,550	1,150	24,026	2,375	61,176	1,400	38,250	1,975	59,250
	57,070	1,148,385	88,073	1,805,973	103,127	2,083,187	115,795	2,918,501	124,965	3,595,940
	15,600	775,060	13,766	533,853	6,700	320,840	1,710	126,065	3,661	173,050
	—	—	200	4,500	—	—	200	5,801	—	—
	—	—	300	9,600	—	—	—	—	—	—
	43,115	795,840	59230	1,133,366	64,325	1,216,733	82,187	1,896,383	91,450	2,416,200
	—	—	—	—	—	—	—	—	15,700	548,004
	193,765	4,054,126	260,237	5,376,805	292,805	5,805,929	341,825	8,063,672	410,452	11,180,224

Eastman Chemical

94 1/4

[illegible]