

## Catalyst Production and Shipment Statistics in 2017

(Unit: tons, ¥ 1 million, %)

Category		Item	2016	2017	2017/2016
Industrial Use	Hydrotreating (Including Desulfurization of Fuel Oil)	Production Volume	18,552	16,947	91
		Shipment Volume	17,969	16,491	92
		Shipment Value	17,736	15,798	89
	Other Petroleum Refining	Production Volume	33,144	30,045	91
		Shipment Volume	32,477	29,944	92
		Shipment Value	10,519	10,555	100
	Petroleum Refining	Production Volume	51,696	46,992	91
		Shipment Volume	50,446	46,435	92
		Shipment Value	28,255	26,353	93
	Petrochemical	Production Volume	18,981	19,017	100
		Shipment Volume	17,225	16,300	95
		Shipment Value	51,461	57,036	111
	Polymerization	Production Volume	14,520	15,638	108
		Shipment Volume	13,740	15,315	111
		Shipment Value	23,067	24,884	108
	Oil & Fats Processing Pharmaceuticals & Food Production	Production Volume	397	410	103
		Shipment Volume	422	438	104
		Shipment Value	1,501	4,683	312
	Other Technical Grade (Inorganic Gas, Atmospheric Gas etc.)	Production Volume	416	452	109
Shipment Volume		356	384	108	
Shipment Value		1,794	2,434	136	
Subtotal	Production Volume	86,010	82,509	96	
	Shipment Volume	82,189	78,872	96	
	Shipment Value	106,077	115,390	109	
Environmental Preservation	Automotive Exhaust	Production Volume	9,944	11,325	114
		Shipment Volume	10,987	12,473	114
		Shipment Value	176,264	209,581	119
	Other Environmental Preservation	Production Volume	7,099	5,602	79
		Shipment Volume	7,028	5,585	79
		Shipment Value	12,053	9,974	83
	Subtotal	Production Volume	17,043	16,927	99
Shipment Volume		18,015	18,058	100	
Shipment Value		188,316	219,555	117	
Total	Production Volume	103,053	99,436	96	
	Shipment Volume	100,204	96,930	97	
	Shipment Value	294,393	334,945	114	

Source: METI