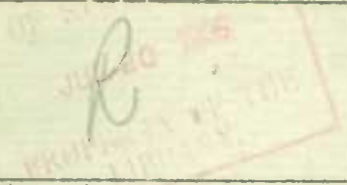


26-009

DEPARTMENT OF TRADE AND COMMERCE
DOMINION BUREAU OF STATISTICS
MINING, METALLURGICAL AND CHEMICAL BRANCH
OTTAWA - CANADA



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MONTHLY REPORT

FELDSPAR AND SALT PRODUCTION IN CANADA - APRIL, 1936.

FELDSPAR - Shipments of feldspar by Canadian producers during April were recorded at 825 tons as compared with 878 tons in March and 492 tons in April, 1935, according to a report just issued by the Dominion Bureau of Statistics at Ottawa. During the first four months of 1936 feldspar shipments totalled 3,541 tons; in the corresponding period, a year ago, 2,566 tons were shipped.

Approximately 4 tons of ground feldspar worth \$92 were imported into Canada in April; during March 5 tons at \$123 were imported.

PRODUCTION OF FELDSPAR IN CANADA

Month	1936(a)	1935(a)	1934
	Tons	Tons	Tons
January	901	730	1,551
February	937	566	1,183
March	878	778	1,822
April	825	492	695
May		1,013	584
June		1,700	1,080
July		2,371	1,426
August		1,714	1,997
September		1,042	2,152
October		1,517	2,204
November		2,822	1,951
December		1,072	1,657
TOTAL - Calendar Year		15,817	18,302
TOTAL - Four months ending APRIL	3,541	2,566	5,251

(a) Subject to revision.

SALT - Commercial salt shipments by Canadian producers amounted to 16,064 tons as compared with 13,411 tons in the preceding month and 21,407 tons in April, 1935. Shipments during the four months ending April totalled 52,150 tons or 8.8 per cent below the tonnage shipped a year ago.

Canada exported 176 tons of salt in April as against 879 tons exported in the preceding month.

Salt imports into Canada during April were recorded at 5,862 tons worth \$25,382; in March 7,899 tons at \$25,767 were imported. The April importations included 2,035 tons from the British West Indies, 1,933 tons from Great Britain, 1,627 tons from the United States, 224 tons from Newfoundland, and the remainder from Spain and Egypt.

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BY
J. H. VAN VAN NEST
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THE THERMAL DECOMPOSITION OF
METHYL METHYLAMINE

The decomposition of methyl methylamine was studied in a closed system at various temperatures. The products were analyzed for methane, ethane, and hydrogen. The results show that the decomposition is a first-order reaction with respect to the methyl methylamine. The activation energy for the reaction is 12,500 calories per mole.

EXPERIMENTAL

Temperature, °C.	Initial Pressure, mm.	Final Pressure, mm.	Time, min.
100	100	85	10
100	100	70	20
100	100	55	30
100	100	40	40
100	100	25	50
100	100	10	60
100	100	0	70
100	100	0	80
100	100	0	90
100	100	0	100
100	100	0	110
100	100	0	120
100	100	0	130
100	100	0	140
100	100	0	150
100	100	0	160
100	100	0	170
100	100	0	180
100	100	0	190
100	100	0	200
100	100	0	210
100	100	0	220
100	100	0	230
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100	100	0	250
100	100	0	260
100	100	0	270
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100	100	0	650
100	100	0	660
100	100	0	670
100	100	0	680
100	100	0	690
100	100	0	700
100	100	0	710
100	100	0	720
100	100	0	730
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100	100	0	750
100	100	0	760
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100	100	0	880
100	100	0	890
100	100	0	900
100	100	0	910
100	100	0	920
100	100	0	930
100	100	0	940
100	100	0	950
100	100	0	960
100	100	0	970
100	100	0	980
100	100	0	990
100	100	0	1000

The results of the experiments are summarized in the following table. The decomposition of methyl methylamine is a first-order reaction with respect to the methyl methylamine. The activation energy for the reaction is 12,500 calories per mole.

PRODUCTION OF COMMERCIAL SALT IN CANADA

Month	1936(a)	1935(a)	1934
	Tons	Tons	Tons
January	11,013	11,136	10,641
February	11,662	10,853	10,204
March	13,411	13,794	14,818
April	16,064	21,407	19,476
May		22,748	20,346
June		16,432	15,894
July		23,728	16,724
August		15,711	16,815
September		18,139	18,289
October		20,303	22,187
November		26,379	20,545
December		13,260	11,682
TOTAL - Calendar Year		213,890	197,621
TOTAL - Four months ending APRIL	52,150	57,190	55,139

(a) Subject to revision.

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