

INTER-OFFICE MEMO

TENNECO CHEMICALS, INC.

TO H.B. Carr AT Burlington DATE March 10, 1971
FROM F.W. Kanzler AT Burlington COPY TO ✓ File
SUBJECT Evaluation of Vinyl Acetate Monomer (MVAc)

Reference: Memos F.W. Kanzler to H.B. Carr,
dated 10/29/70 and 2/27/71

As outlined in the referenced memos, gas chromatographic analysis of MVAc was added to the routinely performed IR analysis run on the subject raw material. Table I (attached) shows additional analyses made since the latter referenced memo. While both acetaldehyde and crotonaldehyde were tentatively identified as the main impurities in the MVAc samples, it is suspected that other impurities are masked by the two main impurities. Therefore, an attempt will be made to (1) achieve a better separation and (2) quantify the impurities by direct calibration.

Table II (attached) shows the results from a MVAc sump sample. All of the levels were calculated on the basis of area compensation.

Fred W. Kanzler

F.W. Kanzler

Attachments (2).

FWK/jt

TABLE I

<u>Date</u>	<u>Supplier</u>	<u>Tank Car No.</u>	<u>Acetaldehyde</u>	<u>Crotonaldehyde</u>	<u>MVAc %</u>
2/4/71	UC	NATX 22363	Tr	46	99.99
2/9/71	USI	ACA 82996	16	ND	99.99
2/16/71	UC	UTLX 48827	3	3	99.99
2/23/71	Celanese	CELX 22315	13	3	99.99
2/27/71	UC	T 106	1	79	99.99
3/1/71	UC	NATX 22363	3	76	99.99
3/8/71	UC	RATX 6090	1	76	99.99

TABLE II

MVAc SUMP COPOLYMER RECOVERY

<u>Components</u>	<u>%</u>
Vinyl Chloride	1.27
Acetaldehyde	15.07
Crotonaldehyde	0.22
Vinyl Acetate	83.44