

THERMAL STABILITY OF COMPONENTS

	<u>COMPOUND</u>	<u>HALF-LIFE</u>	<u>CONDITIONS</u>
SUGAR:	RIBOSE	73 MINS.	100 °C, pH 7
ORG. BASES:	CYTOSINE	19 DAYS	100 °C
	ADENINE	370 DAYS	100 °C
AMINO ACIDS:	ALANINE	19,000 YRS.	100 °C
	SERINE	320 DAYS	100 °C

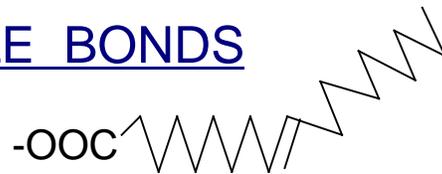
MEMBRANE LIPIDS AT HIGH TEMPERATURES
HAVE HIGHER MELTING POINTS

LONGER CHAINS

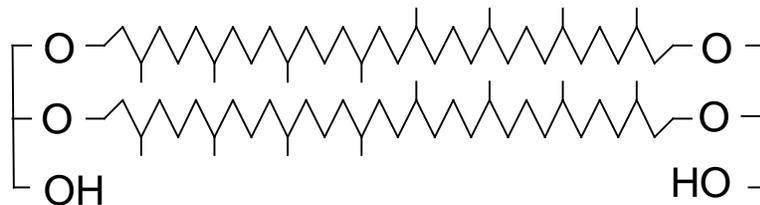
TYPICAL AT 30° AVG. ~17 CARBONS

TYPICAL AT >70° 16 - 20 CARBONS

FEWER DOUBLE BONDS



RISING PRESENCE OF TETRA-ETHERS



MEMBRANE-SPANNING DUAL C₄₀
(ALSO DUAL C₂₀)