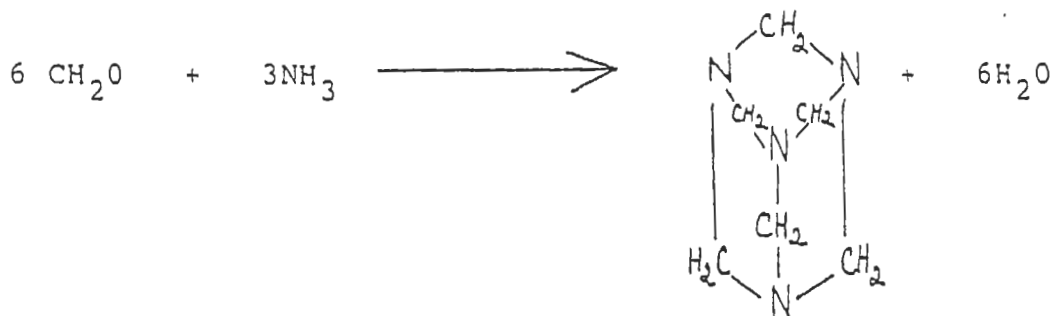
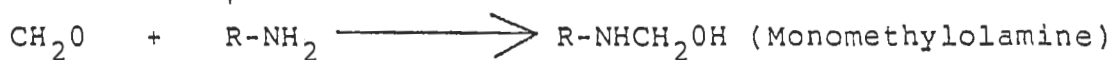


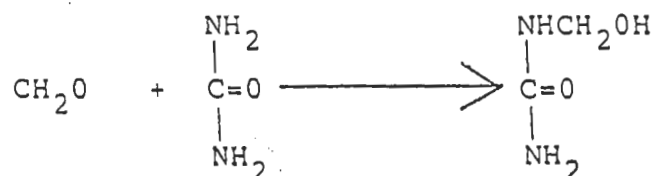
1.) Formaldehyde and Ammonia \longrightarrow Hexamethylenetetramine and Water



2.) Formaldehyde and Amino Acids (R-NH_2) (NH_2 = terminal amine group)



3.) Formaldehyde and Urea \longrightarrow Monomethylolurea



4.) Formaldehyde and Creatinine \longrightarrow Methylolamide



5.) Formaldehyde and Peptide (s) \longrightarrow Methylolpeptide



COMPOSITION OF AVERAGE 24-H URINE OF A
NORMAL ADULT

BY

Emil Smith, Robert Hill, Robert Lehman
Robert Lefkowitz, Philip Handler and
Abraham White

IN

PRINCIPLES OF BIOCHEMISTRY

TABLE 5.13

Composition of Average 24-h Urine of a Normal Adult	Component		
Sodium	2-4g	100-200 meq	0.8-1.5
Potassium	1.5-2.0g	50-70meq	10-15
Magnesium	0.1-0.2g	8-16meq	
Calcium	0.1-0.3g	2.5-7.5meq	
Iron	0.2mg		
Ammonia	0.4-1.0gN	30-75meq	
H ⁺		4×10^{-8} - 4×10^{-6} meq/liter	1-100
Uric acid	0.08-0.2gN		20
Amino acids	0.08-0.15gN		
Hippuric acid	0.04-0.08gN		
Chloride		100-250meq	0.8-2
Bicarbonate		0-50meq	0-2
Phosphate	0.7-1.6gP	20-50mmol	25
Inorganic sulfate	0.6-1.8gS	40-120meq	50
Organic sulfate	0.06-0.2gS		
Urea	6-18gN		35
Creatinine	0.3-0.8gN		70
Peptides	0.3-0.7gN		

*U/P = ratio of concentration in urine to that in plasma.