

# THE MAIN CHEMICAL AND PHYSICAL PROPERTIES OF FOSSIL FUELS AND MAJOR BIOPOLYMERS

	Gasoline	Gas oil/Diesel	Carbohydrate	Lignin
Carbon chain length	5-10	12-20	$[5-6]_n$	$[9]_n$
O/C molar ratio	0	0	1	0.3-0.4
H/C molar ratio	1-2	~2	2	0.7-1.1
Phase behavior (ambient T)	liquid	liquid	solid	liquid-solid
Polarity	a-polar	a-polar	polar	a-polar
Preferred structure	branched/aromatic /cyclic/unsaturated	linear/saturated	linear/cyclic	branched