	TA	ABLE A-5	ENTH	ALPY OF COMBUSTION
Substance	Formula	State	$\Delta oldsymbol{H}_{c}$	Substance
hydrogen	$H_2$	g	-285.8	benzene
graphite	С	S	-393.5	toluene
carbon monoxide	CO	g	-283.0	naphthalene
methane	CH <sub>4</sub>	g	-890.8	anthracene
ethane	$C_2H_6$	g	-1560.7	methanol
propane	$C_3H_8$	g	-2219.2	ethanol
butane	$C_4H_{10}$	g	-2877.6	ether
pentane	$C_5H_{12}$	g	-3535.6	formaldehyde
hexane	$C_6H_{14}$	1	-4163.2	glucose
heptane	C <sub>7</sub> H <sub>16</sub>	1	-4817.0	sucrose
octane	$C_8H_{18}$	1	-5470.5	$\Delta H_c$ = enthalpy of co
ethene (ethylene)	$C_2H_4$	g	-1411.2	substance. All values
propene (propylene)	$C_3H_6$	g	-2058.0	kJ/mol of substance of $CO_2(g)$ at constant pro-
ethyne (acetylene)	$C_2H_2$	g	-1301.1	$s = \text{solid } I = \text{liquid } \sigma$

Substance	Formula	State	$\Delta H_{\rm c}$	
benzene	$C_6H_6$	l	-3267.6	
toluene	C <sub>7</sub> H <sub>8</sub>	l	-3910.3	
naphthalene	$C_{10}H_{8}$	S	-5156.3	
anthracene	$C_{14}H_{10}$	S	-7163.0	
methanol	CH <sub>3</sub> OH	l	-726.1	
ethanol	C <sub>2</sub> H <sub>5</sub> OH	l	-1366.8	
ether	$(C_2H_5)_2O$	l	-2751.1	
formaldehyde	CH <sub>2</sub> O	g	-570.7	
glucose	$C_6H_{12}O_6$	S	-2803.0	
sucrose	$C_{12}H_{22}O_{11}$	S	-5640.9	
$\Delta H_c$ = enthalpy of combustion of the given substance. All values of $\Delta H_c$ are expressed as kJ/mol of substance oxidized to H <sub>2</sub> O( $l$ ) and/or CO <sub>2</sub> ( $g$ ) at constant pressure and 25°C. $s$ = solid, $l$ = liquid, $g$ = gas				

TABLEAC	THE ELERATRITC	CVRADOLC ATO	RAIC BUIRADEDC	AND ATOMIC MASSES
IAKIF A-h	THE FIRMENTS-	—SYIVIKUIS AIUI	WIIC WIIIWIKERS	

Name of element	Symbol	Atomic number	Atomic mass
actinium	Ac	89	[227.0278]
aluminum	Al	13	26.981539
americium	Am	95	[243.0614]
antimony	Sb	51	121.757
argon	Ar	18	39.948
arsenic	As	33	74.92159
astatine	At	85	[209.9871]
barium	Ba	56	137.327
berkelium	Bk	97	[247.0703]
beryllium	Ве	4	9.012182
bismuth	Bi	83	208.98037
bohrium	Bh	107	[262.12]
boron	В	5	10.811
bromine	Br	35	79.904
cadmium	Cd	48	112.411
calcium	Ca	20	40.078
californium	Cf	98	[251.0796]
carbon	С	6	12.011
cerium	Се	58	140.115
cesium	Cs	55	132.90543
chlorine	Cl	17	35.4527
chromium	Cr	24	51.9961
cobalt	Со	27	58.93320

Name of		Atomic	Atomic
element	Symbol	number	mass
copper	Cu	29	63.546
curium	Cm	96	[247.0703]
darmstadtiu	m Ds	110	[271]
dubnium	Db	105	[262.114]
dysprosium	Dy	66	162.50
einsteinium	Es	99	[252.083]
erbium	Er	68	167.26
europium	Eu	63	151.966
fermium	Fm	100	[257.0951]
fluorine	F	9	18.9984032
francium	Fr	87	[223.0197]
gadolinium	Gd	64	157.25
gallium	Ga	31	69.723
germanium	Ge	32	72.61
gold	Au	79	196.96654
hafnium	Hf	72	178.49
hassium	Hs	108	[265]
helium	He	2	4.002602
holmium	Но	67	164.930
hydrogen	Н	1	1.00794
indium	In	49	114.818
iodine	I	53	126.904
iridium	Ir	77	192.22