

Commonly Observed Ions in EI

Compound or Ion Name	Formula	Exact Mass (u)
Methylene Dichloride ^a	CH ₂ Cl	48.9845
t-Butyl	C ₄ H ₉	57.0704
Phenyl	C ₆ H ₅	77.0392
Chloroform ^a	CHCl ₂	82.9455
Methylene Dichloride	CH ₂ Cl ₂	83.9534
Tropyllium	C ₇ H ₇	91.0547
Benzoyl	C ₆ H ₅ CO	105.0341
	C ₈ H ₉	105.0545
Adeninyl	C ₅ H ₅ N ₅	135.0547
	C ₆ H ₅ Se	156.9557
Trityl	C ₁₉ H ₁₅	243.1174
	C ₁₈ H ₁₄ OP	277.0782
Polyphenylether	C ₃₀ H ₂₂ O ₄	446.1518
Trimethylsilyl	SiMe ₃	73.0474
(common in GCMS ^b)	Si ₃ O ₃ Me ₅	207.0329
"	Si ₄ O ₄ Me ₉	281.0517
"	Si ₅ O ₆ Me ₇	341.0185
"	Si ₅ O ₅ Me ₉	355.0705
"	Si ₆ O ₆ Me ₁₁	429.0893
Butylated Hydroxyanisole ^a	C ₁₀ H ₁₃ O ₂	165.0915
Butylated Hydroxyanisole	C ₁₁ H ₁₆ O ₂	180.1150
Butylated Hydroxytoluene ^a	C ₁₄ H ₂₁ O	205.1592
Butylated Hydroxytoluene	C ₁₅ H ₂₄ O	220.1827
Phthalate ^a	C ₈ H ₅ O ₃	149.0239
Phthalate ^a	C ₈ H ₇ O ₄	167.0344
Phthalate ^a	C ₁₂ H ₁₅ O ₄	223.0970
Phthalate ^a	C ₁₆ H ₂₃ O ₄	279.1597

^acommon fragment ion formed from respective compound

^bfrom GC column