

158(12) : Experimental Data for the γ Ray Compton Effect

Google keywords : "Compton scattering odec", 7th website

θ°	$E' \text{ (keV)}$	$\omega' / 10^{20}$ (rad s^{-1})	$\theta \text{ (radians)}$
10	647.18	9.883	0.1745
15	630.8	9.584	0.2618
26	581.34	8.832	0.4537
37	522.64	7.940	0.6457
46	471.12	7.157	0.8027
53	434.29	6.598	0.9249
60	402.25	6.111	1.047
66.4	369.65	5.616	1.1587
73	345.77	5.253	1.2739
90	290.69	4.416	1.5705

$$\omega = 1.0052 \times 10^{21} \text{ rad s}^{-1}$$

$$= 661.66 \text{ keV}$$

Conversion to S.I. units

$$1 \text{ eV} = 1.60217653(14) \times 10^{-19} \text{ joules}$$

$$= 1.51924 \times 10^{15} \text{ rad s}^{-1}$$

$$1 \text{ radian} = 180^\circ$$