



⁵³Fe(8.5 min.) Decay Scheme 8.5 yr. 7/2+ 53 26**Fe** Q=3742.6 3126.8 0.14% (5/2)-2273.6 0.39% 5/2-1621.93 1.0% 9/2-377.9, 42% 73 5/2-7/2-01 56% 3.7x10⁶ yr.

GAMMA-RAY ENERGIES AND INTENSITIES

Nuclide: ⁵³Fe Half Life: 8.51(2) min. Detector: 4.55 cm² x 8 mm Ge (Li) Method of Production: ⁵⁴Fe(γ,n)

	E_{γ} (keV)	$σ Ε_γ$	I_{γ} (rel)	l _γ (%)	σ Ι $_{\gamma}$	S
	377.9	0.1	100	42	3	1
Ann.	511.006			192	22	1
	1288	0.1		0.084	0.006	4
	1397.6	0.8		0.008	0.004	4
	1619.9	0.1		0.5	0.09	4
	2273.5	0.3		0.38	0.05	4
[2307.7	0.6		0.013	0.004	4
	2685.6	0.4		0.08	0.022	4
	2748.8	0.4		0.14	0.04	4
	2946.6	0.4		0.05	0.017	4
	3248.8	0.8		0.038	0.021	4

 E_{γ} , σE_{γ} , I_{γ} , σI_{γ} - 1998 ENSDF Data



