

IODINE-131

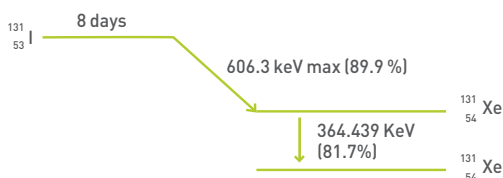
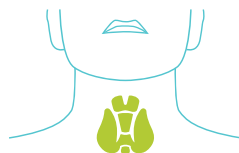
MEDICAL USE

The properties of iodine-131 make it more suitable for therapy than diagnosis. It is mainly used in the treatment of thyroid cancer and certain forms of hyperthyroidism.

PRODUCT SPECIFICATIONS

• PHYSICAL FACTS

The decay scheme for ^{131}I production



• CHEMICAL FACTS



Chemical form: NaI

Solution molarity:
0.1M NaOH (pH 9-13)

Activity: at the customer's request
 $\geq 160,2 \text{ GBq/ml}$ (at calibration date)

Appearance: clear and colourless
solution, precipitate free

Specific Activity: no carrier and no
additive $\geq 555 \text{ GBq/ml}$ (at expiry
date)

Radionuclidic purity (at calibration
date better than US and European
Pharmacopoeia)

Total γ emitters / $^{131}\text{I} \leq 1 \cdot 10^{-3}$

Radiochemical purity: ^{131}I as $\text{I}^- \geq 97\%$

• PRACTICAL FACTS



Calibration: total activity to be specified at a specific date/time by the user

Delivery: according to customer requirements

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