

# Beef Tallow

## DESCRIPTION

Beef tallow is a semi-solid lipid made from rendering beef fat.

## CLASSIFICATION

Fats, grease & offal

## SOURCE INDUSTRY

Meat packing. See the [Meat Products industry roadmap](#).

## ANNUAL VOLUME GENERATED IN WISCONSIN

180 million lbs. (3 million head of beef<sup>1</sup> at 60 lbs. of rendered fat/head<sup>2</sup> of beef)

## CURRENT APPLICATIONS

Used in making soap, plastics, lotions, detergents, tires, candles, paints, varnishes, lubricants, several pharmaceuticals, pesticides, herbicides, emulsifiers and dispersing agents

## PRICE

\$29,600/ton (edible tallow)

## APPLICABLE BIOREFINING PROCESSES

[Anaerobic digestion](#), [esterification/transesterification](#), [lipid extraction](#), [thermochemical liquefaction](#)

## REFERENCES

<sup>1</sup> Wisconsin Agricultural Statistics Service, Cattle Numbers Stable, July 2003.  
<http://www.nass.usda.gov/wi/rlsetoc.html> (12 May 2004)

<sup>2</sup> Rendering for profit. 1996. *National Provisioner* Vol. 210, No. 8.

Development Document for the Proposed Effluent Limitations Guidelines and Standards for the Meat and Poultry Products Industry Point Source Category (40 CFR 432). 2002.  
<http://www.epa.gov/ost/guide/mpp/technicaldev.pdf> (8 April 2004)

Fennema, Owen R., (ed). 1996. Food Chemistry. Food Science and Technology 76, p. 1069.

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[http://www.biodiesel.org/resources/reportsdatabase/reports/gen/19960101\\_gen-224.pdf](http://www.biodiesel.org/resources/reportsdatabase/reports/gen/19960101_gen-224.pdf) (8 April 2004)