

(2) sugar, from sugar beet, at sugar refinery

Reference function	information
Name	sugar, from sugar beet, at sugar refinery
Unit	unit
Category	food industry
Subcategory	processing
Amount	1
Included processes	This dataset includes the transport of sugar beets to the sugar refinery, and the processing of sugar beets to sugar, molasses (72% dry matter) and pulps (25.6% dry matter). System boundary is at the sugar refinery. Treatment of waste effluents is included. Packaging of the sugar is not included.
General comment	Inventory refers to the production of 1 kg sugar, respectively 1 kg of molasses (72% dry matter) and 1 kg of pulps (25.6% dry matter). The multioutput-process 'sugar beet, in sugar refinery' delivers the co-products 'sugar, from sugar beet, at sugar refinery' and 'molasses, from sugar beet, at sugar refinery' and 'pulps, from sugar beet, at sugar refinery. Economic allocation with allocation factor for common stages of 91.7% to sugar, 4.5% to molasses and 3.8% to pulps. Allocation is done according to carbon balance for CO2 emissions.
Infrastructure included	Yes
Dataset relates to product	Yes
Geography	Data is from sugar producer in CH, industrial data
Technology	Sweet juice is extracted from the sugar beets by diffusion. The juice is then purified and crystallized to sugar. Molasses come as a by-product of the crystallization process.
Start year	1998
End year	2006