(2) potassium sulphate, as K2O, from rape oil, at esterification plant

Reference function	information
Name	potassium sulphate, as K2O, from rape oil, at esterification plant
Unit	kg
Category	chemicals
Subcategory	inorganics
Amount	1
Included processes	This process includes the esterification process of oil to methyl ester, glycerine and potassium sulphate, intermediate storage of the oil and products, treatment of specific wastewater effluents. System boundary is at the esterification plant.
General comment	Inventory refers to the production of 1 kg rape rape methyl ester, respectively glycerine and potassium sulphate, from rape oil. The multioutput-process 'rape oil, in esterification plant' delivers the co-products 'rape methyl ester, at esterification plant', 'glycerine, from rape oil, at esterification plant', 'potassium sulphate, as K2O, from rape oil, at esterification plant'. Economic allocation with allocation factor of 86.9% to rape oil, 12.9% to glycerine and 0.2% to potassium sulphate. Allocation of CO2 emissions is done according to carbon balance.
Infrastructure included	Yes
Dataset relates to product	Yes
Geography	Data from different plants worldwide (incl. literature data)
Technology	Typical vegetable oil esterification plant designed for the production of methyl ester (for use in the vehicle fuels market), global context. Base-catalyzed transesterification.
Start year	1996
End year	2006