

**kg** Wood glue (PVA)

Polyvinyl acetate (PVA), also known as wood glue, is clear drying, non-toxic, water-based adhesive commonly used as a binding agent for timber, paper, cloth and other natural fibres. It provides a flexible and strong bond that dries quickly at room temperature.

There are different grades of PVA glue, used for different purposes. 'White glue' or 'craft glue' is used for interior applications only. 'Yellow glue' or 'carpenters glue' is water-resistant, but not suitable for full exterior use. There are also exterior grade, fully waterproof variations, that are suitable for not-structural exterior purposes. These are generally slower drying, and cure at a lower temperature.

In addition to being used as a wood binding agent, PVA can also be used as a sealer, primer and filler.

**Category** *Miscellaneous*

**Type** *Adhesive*

**Functional unit** *kg*

**Specific heat** *1 546 J/(kg·K)*

**Density** *1 191 kg/m<sup>3</sup>*

**Common uses**  
*Adhesive, sealer, primer, filler*

**Process name**  
*Vinyl acetate, at plant/RER U/AusSD U*

**Input-output sector**  
*Basic Chemical Manufacturing*

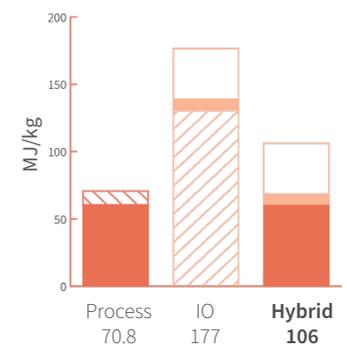
**Further information**  
*doi.org/10.26188/5da558f73d913*

**TOP THREE INPUTS**

**28.2%** Acetic acid, 98% in H<sub>2</sub>O, at plant/RER U/AusSD U

**4.5%** Road Transport

**1.2%** Oxygen, liquid, at plant/RER U/AusSD U



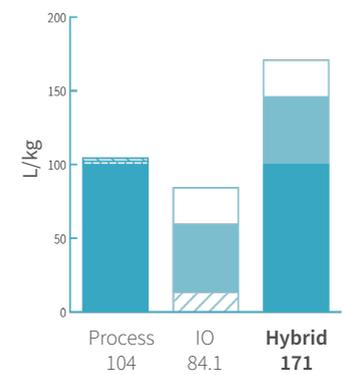
**ENERGY**  
**106 MJ/kg**

**TOP THREE INPUTS**

**35.3%** Acetic acid, 98% in H<sub>2</sub>O, at plant/RER U/AusSD U

**4.1%** Sheep, Grains, Beef and Dairy Cattle

**3.8%** Meat and Meat product Manufacturing



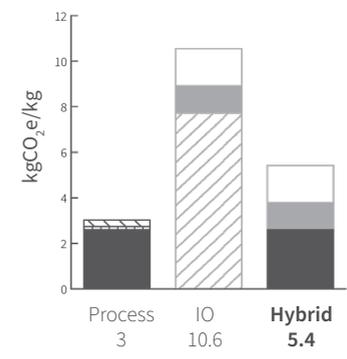
**WATER**  
**171 L/kg**

**TOP THREE INPUTS**

**24.3%** Acetic acid, 98% in H<sub>2</sub>O, at plant/RER U/AusSD U

**3.0%** Road Transport

**2.7%** Oxygen, liquid, at plant/RER U/AusSD U



**GREENHOUSE GAS EMISSIONS**  
**5.4 kgCO<sub>2</sub>e/kg**

