



AN ILLOVO SUGAR AFRICA COMPANY

## Technical Data Sheet

November 2019

### DIACETYL

2,3-Butanedione, Dimethyldiketone, Dimethylglyoxal



Molecular Weight 86.09

### Physical Description

Clear yellow liquid with a strong, penetrating odour and buttery on dilution.

### Specification

Complies with Food Chemicals Codex Specification (5<sup>th</sup> Edition, January 2004, pg 544-545)

Diacetyl Assay, wt % minimum	98.0%
Refractive Index at 20°C	1.393 to 1.397
Specific Gravity at 25/25°C	0.979 to 0.985
Isovaleraldehyde, wt% maximum	0,30
Arsenic (as As)	Less than 3 ppm
Lead (as Pb)	Less than 2 ppm
Cadmium (as Cd)	Less than 1 ppm
Mercury (as Hg)	Less than 1 ppm

Analytical methods available on request.

Shelf Life – 2 years from date of manufacture.

### Packing

20 kg Lined Drums, 200 kg Lined Drums and 1 ton IBCs

**IMCO Class 3.0**

**UN No. 2346**

**Tariff Code 2914.19**

**FEMA No. 2370**

### Storage

All drums and IBCs should be stored in a cool place, preferably below 25°C, because of its volatile nature and tendency to polymerise or breakdown.

### Safe Handling of Diacetyl

As the flash point of diacetyl is only 12°C, it must be handled with the same precautions as petrol (gasoline). All drums and tanks should be earthed and non flameproof motors should be switched off when decanting. It is recommended that when handling diacetyl, eye protection and respirators must be worn and, the environment should be well ventilated. If diacetyl splashes in one's eyes, it must be washed with copious amounts of water and refer to a physician as soon as possible. Care should be taken not to allow the inhalation of diacetyl vapours. Excessive inhalation may cause a lung disease (bronchiolitis obliterans).

The information given in this sheet is based on work in our laboratories as well as reported results of other workers in this field and is offered without guarantee and no patent liability is assumed.

Refer to Section 11 of the SDS for maximum levels of consumption.

**Reviewed on 6 November 2019**