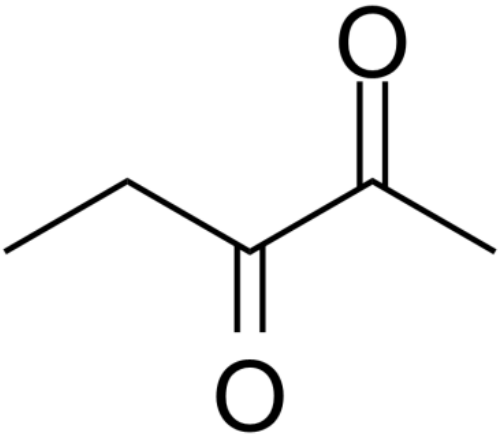
# Product Data Sheet

Product Name: 2,3-Pentanedione
Cat. No.: GC61923

## Chemical Properties

| | | | |
|---|---|---|---|
| Cas. No. | 600-14-6 | | |
| SMILES | CC(C(CC)=O)=O | | |
| Formula | $C_5H_8O_2$ | M.Wt | 100.12 |
| Solubility | DMSO : 100 mg/mL (998.80 mM; Need ultrasonic) | Storage | Store at -20°C |
| General tips | For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months. | | |
| Shipping Condition | Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request. | | |

Structure



## Background

2,3-Pentanedione is a common constituent of synthetic flavorings and is used to impart a butter, strawberry, caramel, fruit, rum, or cheese flavor in beverages, ice cream, candy, baked goods, gelatins, and puddings. 2,3-Pentanedione also occurs naturally as a fermentation product in beer, wine, and yogurt and is releasedduring roasting of coffee beans[1].

***Caution: Product has not been fully validated for medical applications. For research use only.***
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***Address: 10292 Central Ave. #205, Montclair, CA, USA***

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References:

[1]. Morgan DL, et al. Bronchial and bronchiolar fibrosis in rats exposed to 2,3-pentanedione vapors: implications for bronchiolitis obliterans in humans. Toxicol Pathol. 2012;40(3):448-465.

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