



LKT Laboratories, Inc.

## 1,4-Benzoquinone

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### Product Information

Product ID B1853

CAS No. 106-51-4

Chemical Name 2,5-Cyclohexadiene-1,4-dione

Synonym Quinone, p-quinone, 1,4-Cyclohexadienedione

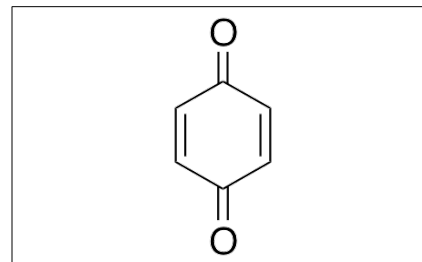
Formula  $C_6H_4O_2$

Formula Wt. 108.09

Melting Point 115.7°C

Purity ≥98%

Solubility Slightly soluble in water. Soluble in alcohol, ether or alkalis.



### Pricing and Availability

*Bulk quantities available upon request*

Product ID	Size	List Price
B1853	100 g	\$52.00
B1853	500 g	\$187.70

Store Temp 4°C

Ship Temp Ambient

**Description** 1,4-Benzoquinone is a precursor used in the synthesis of hydroquinone and is also used as a hydrogen acceptor and oxidant. 1,4-Benzoquinone exhibits anti-inflammatory and antibiotic activities. 1,4-Benzoquinone inhibits 5-lipoxygenase and prevents leukotriene synthesis. Additionally, this compound displays antibacterial efficacy against *Staphylococcus*, *Salmonella*, and *Bacillus*.

**References** Schaible AM, Filosa R, Temml V, et al. Elucidation of the molecular mechanism and the efficacy in vivo of a novel 1,4-benzoquinone that inhibits 5-lipoxygenase. *Br J Pharmacol*. 2014 May;171(9):2399-412. PMID: 24467325.

Kim MH, Jo SH, Ha KS, et al. Antimicrobial activities of 1,4-benzoquinones and wheat germ extract. *J Microbiol Biotechnol*. 2010 Aug;20(8):1204-9. PMID: 20798583.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.