



LKT Laboratories, Inc.

## Benzo[a]pyrene

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### Product Information

**Product ID** B1652

**CAS No.** 50-32-8

**Chemical Name** 3,4-Benzopyrene

**Synonym** 1,2-benzopyrene, 1,2-benzopyrene, 6,7-benzopyrene, benzo[a]pyrene, BP, 3,4-benzopyrene, 3,4-benz[a]pyrene

**Formula** C<sub>20</sub>H<sub>12</sub>

**Formula Wt.** 252.32

**Melting Point** 176-178 °C

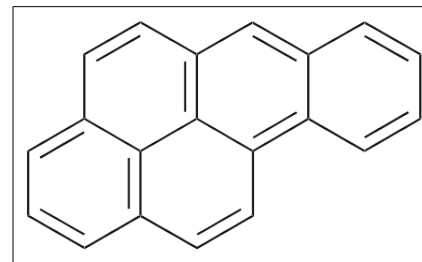
**Purity** ≥98%

**Solubility** Soluble in chloroform, benzene, toluene, xylene, ether. Insoluble in water. Sparingly soluble in alcohol, methanol

**Store Temp** Ambient

**Ship Temp** Ambient

**Description** Benzo[a]pyrene is a polycyclic aromatic hydrocarbon (PAH) originally found in coal tar, cigarette smoke, and wood smoke. Metabolites of this compound bind DNA and induce mutations. Benzo[a]pyrene is highly carcinogenic and is used in research models to induce carcinogenesis and tumor formation.



**Bulk quantities available upon request**

**Product ID** **Size**

B1652 500 mg

B1652 1 g

**WARNING:** Strong carcinogen. Handle with care.

**References** Gao L, Mai A, Li X, et al. LncRNA-DQ786227-mediated cell malignant transformation induced by benzo(a)pyrene. *Toxicol Lett.* 2013 Nov 25;223(2):205-10. PMID: 24084393.

Naveenkumar C, Raghunandakumar S, Asokkumar S, et al. Mitigating role of baicalein on lysosomal enzymes and xenobiotic metabolizing enzyme status during lung carcinogenesis of Swiss albino mice induced by benzo(a)pyrene. *Fundam Clin Pharmacol.* 2014 Jun;28(3):310-22. PMID: 23834621.

Poirier MC, Santella R, Weinstein IB, et al. Quantitation of benzo(a)pyrene-deoxyguanosine adducts by radioimmunoassay. *Cancer Res.* 1980 Feb;40(2):412-6. PMID: 7356524.

Selkirk JK. Benzo[a]pyrene carcinogenesis: a biochemical selection mechanism. *J Toxicol Environ Health.* 1977 Jul;2(6):1245-58. PMID: 328915.

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