

## Phenylbutazone

Cat. No. COEC-069

Lot. No. (See product label)

### Introduction

**Description** Phenylbutazone is a compound of research interest as an anti-inflammatory and anti-proliferative agent. Several studies have investigated Phenylbutazone as an anti-inflammatory agent and its role in mediating prostaglandin synthesis. Phenylbutazone may be of interest regarding research into anti-proliferative effects as well, especially in colorectal cancer studies. In studies with human colon cancer cell lines investigating anti-proliferative capabilities of NSAIDs, Phenylbutazone was noted to have intermediate anti-proliferative potency as compared to other NSAIDs. Phenylbutazone is an inhibitor of Cox (cyclooxygenase) that is also a substrate for peroxidation by Cox.

**Applications** An inhibitor of Cox

### Product Information

<b>Form</b>	Solid
<b>CAS No.</b>	50-33-9
<b>Molecular Formula</b>	C <sub>19</sub> H <sub>20</sub> N <sub>2</sub> O <sub>2</sub>
<b>Molecular Weight</b>	308.38
<b>Purity</b>	≥99%
<b>Melting Point</b>	106-108° C (lit.)
<b>Boiling Point</b>	~424.9° C at 760 mmHg (Predicted)
<b>Solubility</b>	Soluble in water (1 mg/ml at 25° C), ethanol (62 mg/ml at 25° C), methanol, DMSO (62 mg/ml at 25° C), and DMF (25 mg/ml).
<b>Refractive Index</b>	1.86 (Predicted)
<b>Density</b>	2.02 g/cm <sup>3</sup> (Predicted) (tautomer)