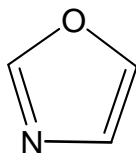


INEOS Nitriles

oxazole

INEOS Nitriles has developed proprietary technology for purification of **oxazole**. Typical purity is $\geq 98\%$, with water as the principal impurity. The low cost of our novel process will make oxazole commercially available at reasonable price.

Oxazole is a clear, colorless liquid. It is polar and weakly basic, and is weakly aromatic. Preliminary toxicity data show that, while it is a skin and eye irritant, there is no evidence of mutagenicity.



C_3H_3NO

Mol. Wt. 69.06

CAS Registry No. 288-42-6

Table 1. Physical Properties

Boiling point, 760 mm.	69-70°C
Melting Point	-84 to -87°C
Density, 25°C	1.050
Flash Point	18°C
pKa	0.8

* Physical properties may vary within specification limits.

Recent activity in the patent literature indicates that molecules incorporating the oxazole ring are finding increasing utility. For example, oxazole has been reported to be useful as an oil additive and as a solvent in several industrial applications. Patent activity in oxazole derivatives in the pharmaceutical industry has been especially noteworthy. Several candidate non-steroidal anti-inflammatory drugs and antimicrobial medications are in various stages of development. The commercial availability of oxazole will make synthetic routes to these molecules directly from oxazole increasingly attractive.

Oxazole exhibits interesting chemical reactivity. It undergoes reactions with electrophiles, particularly at nitrogen, C₅, and C₂. Nucleophiles also react with oxazole at C₂, C₄, and C₅. Oxazole is also an active dienophile in Diels-Alder reactions to prepare substituted pyridines.

We invite you to explore the reactivity and utility of oxazole in your new and existing applications.