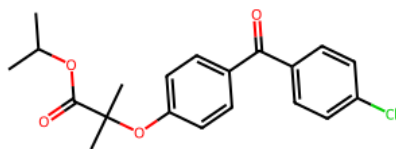


Astinova AI Platform — Formulation Feasibility Report

Compound: fenofibrate (public, BCS Class II) · early developability & ASD feasibility

Illustrative sample on a public target/compound — for format demonstration.



Property	Value
MW	360.8
cLogP	4.68
TPSA	52.6 A2
BCS class	II (low sol / high perm)
Key challenge	aqueous solubility

Amorphous solid dispersion (ASD) polymer screen

Polymer	Predicted miscibility	Physical stability	Recommendation
HPMCAS	High	Good	Lead carrier
PVP-VA	Medium-high	Moderate	Backup
Soluplus	Medium	Moderate	Screen at 20-30% drug load
HPMC	Medium	Good	Slower release option

For this low-solubility (BCS II) compound, an amorphous solid dispersion is the recommended enabling approach, with HPMCAS as the lead carrier on predicted miscibility and stability. Confirm with drug-polymer miscibility, accelerated stability, and dissolution (FaSSIF) studies.