



Beta-Carotene

CAS No: 7235-40-7

FORMULA C₄₀H₅₆
DESCRIPTION Reddish-brown crystalline powder
GRADE USP 29
CATEGORY Raw material

SPECIFICATION

ITEMS	STANDARD
Identification	
A455nm/A483nm	1.14~1.18
A455nm/A340nm	≥1.5
Melting range	176° C~ 182° C, with decomposition
Loss on drying	≤0.2%
Residue on ignition	≤0.2%
Heavy metals (as Pb)	≤0.001%
Residual solvents	
Toluene	≤0.089%
Ethyl acetate	≤0.5%
Acetone	≤0.5%
Cyclohexane	≤0.388%
Assay	96.0% ~ 101.0% of Beta Carotene (C ₄₀ H ₅₆)
Microbial test	
Total aerobic microbial count	≤1000cfu/g
Total combined yeast and molds count	≤100cfu/g
Escherichia coli	n.d. in 10 g