

Aerosol types	Basic component types	Range variation of the number density mixing ratios for aerosol components (limits are consistent with OPAC and literature)	Aspect ratio
Continental	Water soluble	0.4914–0.5914	1.100
	Insoluble	0.0086–0.0086	
	Soot	0.4000–0.5000	
Continental polluted	Water soluble	0.1998–0.2998	1.040
	Insoluble	1.8E-4–1.8E-4	
	Soot	0.6000–0.7000	
	Sulfate	0.1000–0.1000	
Smoke	Water soluble	0.3900–0.4900	1.150
	Soot	0.5000–0.6000	
	Sulfate	0.0100–0.0100	
Dust	Water soluble	0.1949–0.2949	0.870
	Mineral		
	Nucleation mode	0.1170–0.1170	
	Accumulation mode	0.0880–0.0880	
	Coarse mode	0.6e-04–0.6e-04	
Soot	0.5000–0.6000		
Marine	Water soluble	0.1652–0.1662	1.007
	Sea salt		
	Accumulation mode	0.8320–0.8320	
	Coarse mode	0.0e+00–0.1e-06	
Insoluble	0.5000–0.6000		
Volcanic	Mineral		0.850
	Nucleation mode	0.0915–0.1070	
	Accumulation mode	0.1470–0.1719	
	Coarse mode	0.4e-04–0.5e-04	
	Sulfate	0.0391–0.0457	
	Soot	0.6753–0.7224	