

November 2001

Technical Data Sheet for Gallium Oxide powder

Nomenclature: Gallium(III)Oxide, Gallium Oxide, Gallium Trioxide
Formula: Ga_2O_3 M.W. 187.4
CAS Number: 12024-21-4

| Chemical Data | Typical values | Morphology | Typical values |
|---------------|----------------|--|----------------------------|
| Ga_2O_3 | 99.9% minimum | Particle size | |
| Fe | | D10 | |
| Cu | | D50 | |
| Pb | | D90 | |
| Zn | | Crystalline density | = $\sim 6 \text{ gm}^{-3}$ |
| Mg | | Typical tap density | = 0.58 gm^{-3} |
| Na | | Theoretical % metal in compound | |
| Ca | | as gallium | = 74.39% w/w |
| Al | | Typical % metal in compound | |
| Sn | | as gallium | = 73.4% w/w |
| K | | Melting point | = 1725°C |
| Si | | Moisture & ignition loss | |
| Zn | | | |

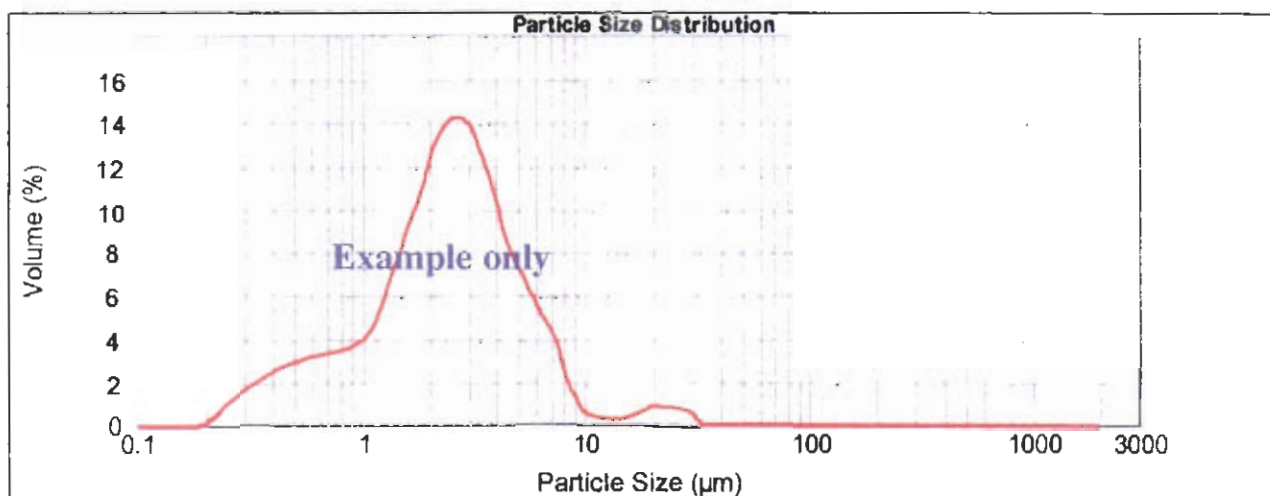
Appearance fine white powder

Solubility in water - insoluble

Solubility in mineral acids - soluble

Packaging/Containers

Typically 5-10kg plastic tubs



Profile for gallium oxide with D50 particle size of