

November 2001

Technical Data Sheet for Gallium Trichloride anhydrous

Nomenclature: Gallium(III)Chloride, Gallium Trichloride, Anhydrous Gallium Trichloride
Formula: GaCl₃ M.W. 176.03
CAS Number: 13450-90-3

Appearance Opaque solid

Morphology Typically polycrystalline solid

Crystalline Density

GaCl₃ ≡ 2.47gcm⁻³

Bulk density of solid ≡ 2.1gcm⁻³

Melting point 77.9°C

Boiling point 201.3°C

Chemical Data

Typical values

made with 99.99%
min purity gallium

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min purity gallium

Oxygen as water	<0.02%	<0.02%
Al	3ppm	<1ppm
Ca	1ppm	<1ppm
Cr	1ppm	<1ppm
Cu	3ppm	<1ppm
Fe	4ppm	<1ppm
Ge	<2ppm	<1ppm
In	<5ppm	<1ppm
Mg	2ppm	<1ppm
Na	8ppm	<5ppm
Ni	<1ppm	<1ppm
Si	<5ppm	<5ppm
Sn	12ppm	<5ppm
Zn	8ppm	<3ppm

% metal in compound w/w

as gallium ≡ 39.59% theoretical value

Solubility

Water - decomposes
Ethers - very soluble
Benzene - soluble

Packaging/Containers

Borosilicate bottles/
316 Stainless steel vessels



*Anhydrous gallium trichloride packed in
a 2 litre borosilicate glass bottle with
pfe insert in screw cap*