

MOCVD Precursor Chemicals

Chemical compound	CAS	Formula	Purity,%
Al			
Aluminium chloride anhydrous	7446-70-0	AlCl ₃	99,999+%
Trimethylaluminium	75-24-1	(CH ₃) ₃ Al	99,999+%
Triethylaluminium	97-93-8	(C ₂ H ₅) ₃ Al	99,999+%
Aluminium isopropoxide	555-31-7	(i-C ₃ H ₇ O) ₃ Al	99,95+%
Dimethylaluminiumhydride	865-37-2	(CH ₃) ₂ AlH	99,999+%
Triisobutylaluminium	100-99-2	(i-C ₄ H ₉) ₃ Al	99,999+%
Tris-tert-butylaluminium	4731-36-6	(t-C ₄ H ₉) ₃ Al	99,999+%
Trimethylaminealane	16842-00-5	(CH ₃) ₃ NAIH ₃	99,999+%
Dimethylethylaminealane	124330-23-5	(CH ₃) ₂ (C ₂ H ₅)NAIH ₃	99,999+%
As			
Trimethylarsine	593-88-4	(CH ₃) ₃ As	99,999+%
Diethylarsine	692-42-2	(C ₂ H ₅) ₂ AsH	99,999+%
Tert-butylarsine	4262-43-5	t-C ₄ H ₉ AsH ₂	99,999+%
Phenylarsine	822-65-1	C ₆ H ₅ AsH ₂	99,999+%
Tris (dimethylamino)arsine	6596-96-9	As(N(CH ₃) ₂) ₃	99,999+%
Arsenic trichloride	7784-34-1	AsCl ₃	99,99+%
B			
Boron tribromide	10294-33-4	BBr ₃	99,999+%
Triethylboron	97-94-9	(C ₂ H ₅) ₃ B	99,999+%
Bi			

Trimethylbismuth	593-91-9	$(\text{CH}_3)_3\text{Bi}$	99,999+%
Br			
Bromomethane	74-83-9	CH_3Br	99,5+%
Bromoethane	74-96-4	$\text{C}_2\text{H}_5\text{Br}$	99,5+%
2-Bromopropane	75-26-3	$i\text{-C}_3\text{H}_7\text{Br}$	99,5+%
2-Bromophenetole	589-10-6	$\text{BrC}_6\text{H}_4\text{OC}_2\text{H}_5$	98,0+%
Cl			
n-Butyl chloride	109-69-3	$\text{C}_4\text{H}_9\text{Cl}$	99,5+%
Tert-Butyl chloride	507-20-0	$t\text{-C}_4\text{H}_9\text{Cl}$	99,5+%
Co			
Tricarbonylnitrosylcobalt	14096-82-3	$\text{Co}(\text{NO})(\text{CO})_3$	99,99+%
Fe			
Pentacarbonyl iron	13463-40-6	$\text{Fe}(\text{CO})_5$	99,999+%
Iron (III) ethoxide	5058-42-4	$(\text{C}_2\text{H}_5\text{O})_3\text{Fe}$	99,5+%
Ga			
Trimethylgallium	1445-79-0	$(\text{CH}_3)_3\text{Ga}$	99,999+%
Triethylgallium	1115-99-7	$(\text{C}_2\text{H}_5)_3\text{Ga}$	99,999+%
Gallium trichloride	13450-90-3	GaCl_3	99,999+%
H			
Methylcyclopentadiene, dimer	26472-00-4	$\text{C}_{12}\text{H}_{16}$	95,0+%
Ethylcyclopentadiene, dimer	307496-29-9	$\text{C}_{14}\text{H}_{20}$	95,0+%
In			
Trimethylindium	3385-78-2	$(\text{CH}_3)_3\text{In}$	99,999+%
Triethylindium	923-34-2	$(\text{C}_2\text{H}_5)_3\text{In}$	99,999+%

Ethylindium	-	$(C_2H_5)_2In(CH_3)_2$	99,999+%
Indium (III) isopropoxide	38218-24-5	$(i-C_3H_7O)_3In$	98,5+%
Indium (III) chloride, anhydrous	10025-82-8	$InCl_3$	99,999+%
Li			
n-Butyllithium (1,6M in n-hexane)	109-72-8	C_4H_9Li	-
Methylithium (1,6M in diethyl ether)	917-54-4	CH_3Li	-
tert-Butyllithium (1,4M) solution in pentane	594-19-4	$t-C_4H_9Li$	-
Mg			
Bis (cyclopentadienyl) magnesium	1284-72-6	$(C_5H_5)_2Mg$	99,99+%
Bis (methylcyclopentadienyl) magnesium	40672-08-0	$(CH_3C_5H_4)_2Mg$	99,99+%
Bis (ethylcyclopentadienyl) magnesium	114460-02-5	$(C_2H_5C_5H_4)_2Mg$	99,99+%
Nb			
Niobium ethoxide	3236-82-6	$(C_2H_5O)_5Nb$	99,99+%
P			
Tris (dimethylamino) phosphine	1608-26-0	$P(N(CH_3)_2)_3$	99,999+%
Phosphorus trichloride	7719-12-2	PCl_3	99,999+%
Phosphorus oxitrichloride	10025-87-3	$POCl_3$	99,999+%
Phosphorus (III) bromide	7789-60-8	PBr_3	99,0+%
Phosphorus pentabromide	7789-69-7	PBr_5	95,0+%
Sb			
Trimethylantimony	594-10-5	$(CH_3)_3Sb$	99,999+%
Triethylantimony	617-85-6	$(C_2H_5)_3Sb$	99,999+%

Tert-butyldimethylantimony	138260-00-1	(t-Bu)Me ₂ Sb	99,999+%
Tris (dimethylamino) antimony	7289-92-1	Sb(N(CH ₃) ₂) ₃	99,999+%
Se			
Dimethylselenium	593-79-3	(CH ₃) ₂ Se	99,999+%
Diethylselenium	627-53-2	(C ₂ H ₅) ₂ Se	99,999+%
Diisopropylselenium	37773-02-7	(i-C ₃ H ₇) ₂ Se	99,999+%
Diallylselenium	127699-25-6	(C ₃ H ₅) ₂ Se	99,999+%
Methylallylselenium	76573-19-8	(CH ₃)Se(C ₃ H ₅)	99,999+%
Di-tert-butylselenium	34172-60-6	(t-C ₄ H ₉) ₂ Se	99,999+%
Si			
Tetraethoxisilane	78-10-4	(C ₂ H ₅ O) ₄ Si	99,999+%
Sn			
Tetramethyltin	594-27-4	(CH ₃) ₄ Sn	99,999+%
Tetraethyltin	597-64-8	(C ₂ H ₅) ₄ Sn	99,999+%
Ta			
Tantalum ethoxide	6074-84-6	(C ₂ H ₅ O) ₅ Ta	99,99+%
Te			
Dimethyltelluride	593-80-6	(CH ₃) ₂ Te	99,999+%
Diethyltelluride	627-54-3	(C ₂ H ₅) ₂ Te	99,999+%
Diisopropyltelluride	51112-72-2	(i-C ₃ H ₇) ₂ Te	99,999+%
Diallyltelluride	113402-46-3	(C ₃ H ₅) ₂ Te	99,999+%
Methylallyltelluride	114438-52-7	(CH ₃)Te(C ₃ H ₅)	99,999+%
Zn			
Dimethylzinc	544-97-8	(CH ₃) ₂ Zn	99,999+%

Diethylzinc	557-20-0	$(C_2H_5)_2Zn$	99,9999+%
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