



## Substance identity card for Lime substances<sup>1</sup>

### CALCIUM OXIDE

Reference in RIP 3.10	Substance of well-defined composition – mono-constituent substance
Name	Calcium oxide
Other names	Quick lime, Lime, Burnt lime
EC number	215-138-9
EC description	Not available (CaO)
CAS number	1305-78-8
Chemical formula	CaO
Molecular weight	56,08
Purity (*)	> 65 % (Typically >80%)
Impurities	Impurities of mineralogical origin (e.g. magnesium, silicon, aluminium, iron, manganese, sulphur) might be present in different forms

(\*) Justification for deviation from the "80% rule" for the main constituent:

Although a vast majority of the commercial products would have a CaO content above 80%, some of them might have a CaO content below 80% but always above 65%. This specification is consistent with the standard EN 459-1. The lower CaO content is justified by the fact that the manufacturing process involves natural rocks as raw materials and the sustainable use of virgin raw materials requires the use of "low grade" raw materials.

<sup>1</sup> As agreed during the Joint Lime Substances Pre-SIEF, SIEF and Consortium meeting on Tuesday 17 February 2009