

# Potassium perchlorate

<b>Other names:</b>	astrumal irenal perchloric acid, potassium salt periodin
<b>Inchi:</b>	InChI=1S/ClHO4.K/c2-1(3,4)5;/h(H,2,3,4,5);/q;+1/p-1
<b>InchiKey:</b>	YLMGFJXSLBMXHK-UHFFFAOYSA-M
<b>Formula:</b>	ClKO4
<b>SMILES:</b>	[O-][Cl+3]([O-])([O-])O[K]
<b>Mol. weight [g/mol]:</b>	138.55

## Physical Properties

Property code	Value	Unit	Source
tt	579.15	K	Thermal behavior of Al/Zr/KClO <sub>4</sub> pyrotechnic compositions at high temperature

## Sources

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=B6000525&Units=SI>

Physico-chemical exploration of solution behaviour of some metal perchlorates: <https://www.doi.org/10.1016/j.tca.2015.03.023>

Thermal behavior of Al/Zr/KClO<sub>4</sub> pyrotechnic compositions at high temperature: <https://www.doi.org/10.1016/j.tca.2017.11.006>

Thermal behavior of Al/Zr/KClO<sub>4</sub> pyrotechnic compositions at high temperature: consequences:

## Legend

tt: Triple Point Temperature

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