

Al-Ca-Cr-H-O  
Al-Ca-Cr-H-O-S  
Al-Ca-Cr-H-O-Si  
Al-Ca-Cr-Mg-O-Si  
Al-Ca-Cr-Na-O-Si  
Al-Ca-Cr-O  
Al-Ca-Cr-O-Si  
Al-Ca-Cs-F-Fe-H-K-Li-Mg-Mn-Na-O-Rb-Si-Ti  
Al-Ca-Cs-F-Fe-H-K-Li-Mn-Na-Nb-O-Si-Ti-Zr  
Al-Ca-Cs-H-Na-O-Si  
Al-Ca-Cu-F-Fe-H-K-Li-Mg-Mn-Na-O-Si-Ti-Zn  
Al-Ca-Cu-Fe-H-K-Na-O-Si  
Al-Ca-Cu-H-O-Si  
Al-Ca-D-H-O  
Al-Ca-Dy-O  
Al-Ca-Er-O  
Al-Ca-Eu-O  
Al-Ca-F  
Al-Ca-F-Fe-H-K-Li-Mg-Mn-Na-Nb-O-Rb-Si-Ti  
Al-Ca-F-Fe-H-K-Li-Mg-Mn-Na-O-P  
Al-Ca-F-Fe-H-K-Li-Mg-Mn-Na-O-Rb-Si  
Al-Ca-F-Fe-H-K-Li-Mg-Mn-Na-O-Rb-Si-Ti  
Al-Ca-F-Fe-H-K-Li-Mg-Mn-Na-O-Si-Ti  
Al-Ca-F-Fe-H-K-Mg-Mn-Na-Nb--O-R-Si-Sr-Th-Ti-Zr  
Al-Ca-F-Fe-H-K-Mg-Mn-Na-O-Si  
Al-Ca-F-Fe-H-K-Mg-Mn-Na-O-Si-Ti  
Al-Ca-F-Fe-H-K-Mg-Mn-O-Si-Ti  
Al-Ca-F-Fe-H-K-Mg-Na-O-Si  
Al-Ca-F-Fe-H-K-Mg-Na-O-Si-Ti  
Al-Ca-F-Fe-H-K-Mn-Na-O-P-Si-Y  
Al-Ca-F-Fe-H-K-Na-Nb-O-R-Si-Sr-Th-Ti-Zr  
Al-Ca-F-Fe-H-Li-Mg-Mn-Na-O-Si  
Al-Ca-F-Fe-H-Li-Mg-Na-O-Si  
Al-Ca-F-Fe-H-Mg-Mn-Na-Nb-O-Si-Ti-Zr  
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Al-Ca-F-Fe-H-Mg-O-Si  
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Al-Ca-F-Fe-H-Na-O-Si-Ti  
Al-Ca-F-Fe-H-O-P  
Al-Ca-F-Fe-Mn-Na-Nb-O-Si-Ti  
Al-Ca-F-Fe-Mn-Na-O-P-R-S-Si-Sr  
Al-Ca-F-H-Li-O-P  
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Al-Ca-F-H-Mn-Na-O-P  
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Al-Ca-F-H-Na-O-P  
Al-Ca-F-H-O  
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Al-Ca-F-H-O-P-Si-Y  
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Al-Ca-F-Mg-Na-O-Si  
Al-Ca-F-Na-O-Si  
Al-Ca-F-O  
Al-Ca-F-O-P  
Al-Ca-F-O-P-Si-Th-Y  
Al-Ca-Fe-Gd-O-Si  
Al-Ca-Fe-Ge-O

Al-Ca-Fe-H-K-La-Mg-Nb-O-P-Si-Th-Ti  
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Al-Ca-Fe-H-Mg-Mn-O-P-Si-Sr  
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Al-Ca-Fe-Mg-Mn-Na-O-Si-Ti-V  
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Al-Ca-H-Li-O-Si  
Al-Ca-H-Mg-Mn-O-Si  
Al-Ca-H-Mg-Na-O-Si  
Al-Ca-H-Mg-Na-O-Si-Zn  
Al-Ca-H-Mg-O-Si  
Al-Ca-H-Mg-O-Si-Ti  
Al-Ca-H-Mn-Nb-O-Pb-Ta-Y  
Al-Ca-H-Mn-O  
Al-Ca-H-Mn-O-Si

<b>Al-Ca-Cr-H-O</b>			
$\text{Ca}_2\text{Al}(\text{CrO}_4)_{0,5}(\text{OH})_6 \cdot n\text{H}_2\text{O}$	f 326	<b>Al-Ca-F</b>	
$\text{Ca}_2\text{Al}(\text{OH})_6(\text{CrO}_4)_{0,5} \cdot 3\text{H}_2\text{O}$	d 7993	$\text{CaAlF}_5$ (I)	a 688
$\text{Ca}_3(\text{Cr}_x\text{Al}_{1-x})_2(\text{OH})_{12}$	f 275	$\text{CaAlF}_5$ (II)	a 689
$\text{Ca}_6\text{Al}_2(\text{CrO}_4)_3(\text{OH})_{12} \cdot 24\text{H}_2\text{O}$	f 325	<b>Al-Ca-F-Fe-H-K-Li-Mg-</b>	
<b>Al-Ca-Cr-H-O-S</b>		<b>Mn-Na-Nb-O-Rb-Si-Ti</b>	
$\text{Ca}_4(\text{Al}_{1-x}\text{Cr}_x)_2\text{SO}_4(\text{OH})_{12} \cdot 6\text{H}_2\text{O}$	b 3900	$(\text{Rb}, \text{K}, \text{Na}, \text{Ca})(\text{Li}, \text{Mg}, \text{Fe}^{\text{II}}, \text{Fe}^{\text{III}}, \text{Al},$	
<b>Al-Ca-Cr-H-O-Si</b>		$\text{Ti}, \text{Nb}, \text{Mn})_3[(\text{Al}, \text{Si})_4\text{O}_{10} \cdot$	
$\text{Ca}_3(\text{Al}, \text{Cr})_2(\text{Si}, \text{H}_4)_4\text{O}_4]_3$	d 1834	$(\text{OH}, \text{F})_2]$	d 1695
<b>Al-Ca-Cr-Mg-O-Si</b>		<b>Al-Ca-F-Fe-H-K-Li-Mg-</b>	
$(\text{CaMg}_{1-x}\text{Cr}_x^{\text{III}})[\text{Si}_{2-x}\text{Al}_x\text{O}_6]$	d 857	<b>Mn-Na-O-P</b>	
<b>Al-Ca-Cr-Na-O-Si</b>		$(\text{Na}, \text{K}, \text{Li}, \text{Ca})_{0,5}(\text{Fe}, \text{Mn}, \text{Al},$	
$\text{Ca}_2\text{Na}_6[(\text{AlSiO}_4)_6(\text{CrO}_4)_2]$	d 2102	$\text{Mg})_{\approx 1,2}(\text{PO}_4)(\text{F}, \text{OH})_{0,25}$	c 2021
<b>Al-Ca-Cr-O</b>		<b>Al-Ca-F-Fe-H-K-Li-Mg-</b>	
$\text{Ca}_4\text{Al}_6\text{CrO}_{16}$	d 7943	<b>Mn-Na-O-Rb-Si</b>	
$\text{Ca}_8\text{Al}_{12}\text{O}_{24}(\text{CrO}_4)_2$	f 287	$(\text{Rb}, \text{K}, \text{Na}, \text{Ca})(\text{Li}, \text{Mg}, \text{Al}, \text{Fe}^{\text{II}}, \text{Fe}^{\text{III}},$	
<b>Al-Ca-Cr-O-Si</b>		$\text{Mn})_3[(\text{Al}, \text{Si})_4\text{O}_{10}(\text{O}, \text{OH}, \text{F})_2]$	d 1698
$\text{Ca}_3(\text{Al}_{1-x}\text{Cr}_x)_2(\text{SiO}_4)_3$	d 856	$(\text{Rb}, \text{K}, \text{Na}, \text{Ca})(\text{Li}, \text{Mg}, \text{Fe}^{\text{II}}, \text{Al}, \text{Mn}) \cdot$	
<b>Al-Ca-Cs-F-Fe-H-K-Li-</b>		$[(\text{Al}, \text{Si})_4\text{O}_{10}(\text{OH}, \text{F})_2]$	d 1697
<b>Mg-Mn-Na-O-Rb-Si-Ti</b>		<b>Al-Ca-F-Fe-H-K-Li-Mg-</b>	
$(\text{Cs}, \text{Rb}, \text{K}, \text{Na})(\text{Li}, \text{Ca}, \text{Mg}, \text{Fe}, \text{Mn},$		<b>Mn-Na-O-Rb-Si-Ti</b>	
$\text{Al})_3[(\text{Al}, \text{Ti}, \text{Si})_4\text{O}_{10}(\text{OH}, \text{F})_2]$	d 1913	$(\text{Rb}, \text{K}, \text{Na}, \text{Ca})(\text{Li}, \text{Mg}, \text{Mn}, \text{Fe}^{\text{II}},$	
<b>Al-Ca-Cs-F-Fe-H-K-Li-</b>		$\text{Fe}^{\text{III}}, \text{Al}, \text{Ti})_3[(\text{Al}, \text{Si})_4\text{O}_{10} \cdot$	
<b>Mn-Na-Nb-O-Si-Ti-Zr</b>		$(\text{OH}, \text{F})_2]$	d 1999
$(\text{Cs}, \text{K}, \text{Na}, \text{Ca})_3(\text{Li}, \text{Mn}, \text{Fe}^{\text{II}}, \text{Fe}^{\text{III}})_7 \cdot$		<b>Al-Ca-F-Fe-H-K-Li-Mg-</b>	
$(\text{Zr}, \text{Ti}, \text{Nb})_2[(\text{Al}, \text{Si})_8\text{O}_{24} \cdot$		<b>Mn-Na-O-Si-Ti</b>	
$(\text{O}, \text{OH}, \text{F})_7]$	d 2024	$(\text{K}, \text{Na}, \text{Li}, \text{Ca})_2(\text{Mg}, \text{Fe}^{\text{II}}, \text{Mn})_3 \cdot$	
<b>Al-Ca-Cs-H-Na-O-Si</b>		$(\text{Fe}^{\text{III}}, \text{Al}, \text{Ti})_2[(\text{Al}, \text{Si})_4\text{O}_{11} \cdot$	
$(\text{Cs}_2, \text{Na}_2, \text{Ca})_2[\text{Al}_4\text{Si}_8\text{O}_{24}] \cdot x\text{H}_2\text{O}$	d 1307	$(\text{O}, \text{OH}, \text{F})_2]$	d 1712
<b>Al-Ca-Cu-F-Fe-H-K-Li-</b>		<b>Al-Ca-F-Fe-H-K-Mg-Mn-</b>	
<b>Mg-Mn-Na-O-Si-Ti-Zn</b>		<b>Na-Nb-O-R-Si-Sr-Th-</b>	
$(\text{K}, \text{Na}, \text{Ca})_2(\text{Cu}, \text{Li}, \text{Zn}, \text{Mg}, \text{Fe}^{\text{II}},$		<b>Ti-Zr</b>	
$\text{Mn})_3(\text{Al}, \text{Fe}^{\text{III}}, \text{Ti})_2[(\text{Al}, \text{Si})_4\text{O}_{11} \cdot$		$(\text{K}, \text{Na}, \text{Sr}, \text{Ca})_3(\text{Ca}, \text{Mg}, \text{Th}, \text{R})_4 \cdot$	
$(\text{OH}, \text{F})_2]$	d 1880	$(\text{Zr}, \text{Ti}, \text{Nb}, \text{Mn}, \text{Fe}, \text{Al})[(\text{Si}_2\text{O}_7) \cdot$	
<b>Al-Ca-Cu-Fe-H-K-Na-</b>		$(\text{O}, \text{OH}, \text{F})_2]_2$	d 1832
<b>O-Si</b>		<b>Al-Ca-F-Fe-H-K-Mg-Mn-</b>	
$(\text{K}, \text{Na}, \text{Ca})_x(\text{Cu}, \text{Al}, \text{Fe}^{\text{III}})_{<3} \cdot$		<b>Na-O-Si</b>	
$[(\text{Al}, \text{Si})_4\text{O}_{10}(\text{OH})_2] \cdot 4\text{H}_2\text{O}$	d 1672A	$(\text{K}, \text{Na}, \text{Ca})_3(\text{Mg}, \text{Mn}, \text{Fe}, \text{Al})_5 \cdot$	
	d 2321	$[\text{Si}_8\text{O}_{22}(\text{OH}, \text{F})_2]$	d 2012
<b>Al-Ca-Cu-H-O-Si</b>		$(\text{K}, \text{Na})\text{Ca}_2(\text{Mg}, \text{Mn}, \text{Fe}^{\text{II}}, \text{Fe}^{\text{III}})_5 \cdot$	
$\text{Cu}_2\text{Ca}_2\text{Al}_2[\text{Si}_4\text{O}_{12}(\text{OH})_6]$	d 1733	$[(\text{Al}_{1,5}\text{Si}_{6,5}\text{O}_{22})(\text{OH}, \text{F})_2]$	d 2011
$\text{Cu}_2\text{Ca}_{10}\text{Al}_4[\text{Si}_9\text{O}_{34}(\text{OH})_4]$	d 1732	<b>Al-Ca-F-Fe-H-K-Mg-Mn-</b>	
<b>Al-Ca-D-H-O</b>		<b>Na-O-Si-Ti</b>	
$\text{Ca}_3\text{Al}_2(\text{OH})_{2,6}(\text{OD})_{9,4}$	d 7896	$(\text{K}, \text{Na}, \text{Ca})_{10}(\text{Mg}, \text{Fe}^{\text{II}}, \text{Fe}^{\text{III}}, \text{Al}, \text{Ti},$	
<b>Al-Ca-Dy-O</b>		$\text{Mn})_2\text{Al}_4[(\text{Si}_9\text{O}_{34})(\text{O}, \text{OH}, \text{F})_4]$	d 1947
$\text{CaDyAlO}_4$	d 7803	$(\text{K}, \text{Na}, \text{Ca})_2(\text{Mg}, \text{Fe}^{\text{II}}, \text{Mn})_3 \cdot$	
<b>Al-Ca-Er-O</b>		$(\text{Fe}^{\text{III}}, \text{Al}, \text{Ti})_2[(\text{Al}, \text{Si})_4\text{O}_{11} \cdot$	
$\text{CaErAlO}_4$	d 7814	$(\text{O}, \text{OH}, \text{F})_2]$	d 1931
<b>Al-Ca-Eu-O</b>		$(\text{K}, \text{Na}, \text{Ca})(\text{Mg}, \text{Mn}, \text{Fe}^{\text{II}}, \text{Fe}^{\text{III}}, \text{Al},$	
$\text{CaEuAlO}_4$	d 7767	$\text{Ti})_2[(\text{Al}, \text{Si})_4\text{O}_{10}(\text{OH}, \text{F})_2]$	d 1937
$\text{CaEuAl}_3\text{O}_7$	d 7768		d 1938
		$(\text{K}, \text{Na}, \text{Ca})(\text{Mg}, \text{Mn}, \text{Fe}^{\text{II}}, \text{Fe}^{\text{III}}, \text{Ti},$	
		$\text{Al})_3[(\text{Al}, \text{Si})_4\text{O}_{10}(\text{OH}, \text{F})_2]$	d 2006

## 2 Alphabetical formula index

$(K,Na,Ca)_{2...3}(Mg,Mn,Fe^{II},Fe^{III},Ti,Al)_5[(Al,Si)_8O_{22}(OH,F)_2]$	d 1952	<b>Al - Ca - F - Fe - H - Mg - Mn - O - Si</b>	
$(Na,K,Ca)_2(Mg,Fe^{II},Fe^{III},Mn)_5 \cdot [(Si,Al,Ti)_4O_{11}(OH,F)]_2 \cdot nH_2O$	d 2010	$(Ca,Mg,Mn,Fe)_7[(Al,Si)_8O_{22}(OH,F)_2]$	d 1884
<b>Al - Ca - F - Fe - H - K - Mg - Mn - O - Si - Ti</b>		<b>Al - Ca - F - Fe - H - Mg - Na - O - Si</b>	
$K_{1,72}Ca_{0,25}(H_3O)_{0,03}[Mg_{0,10} \cdot Mn_{0,04}Fe_{2,64}^{II}Fe_{0,09}^{III}Al_{2,04}] \cdot [Al_{2,01}Si_{5,97}Ti_{0,02}O_{20,00}\{O_{0,18} \cdot (OH)_{2,85}F_{0,97}\}]$	d 2008	$(Na,Ca)_3(Mg,Fe^{II},Al,Fe^{III})_5 \cdot [(Al,Si)_4O_{11}(OH,F)]_2$	d 1930
<b>Al - Ca - F - Fe - H - K - Mg - Na - O - Si</b>		$Na_{2,5}Ca_{0,5}(Mg,Fe^{II},Fe^{III},Al)_5 \cdot [Al_{0,5}Si_{7,5}O_{22}(OH,F)_2]$	d 1714
$(K,Na,Ca)_{2...3}(Mg,Fe^{II},Fe^{III},Al)_5 \cdot [(Al,Si)_2Si_6O_{22}(OH,F)_2]$	d 1952	$Na_{2,5}Ca_{0,5}(Mg,Fe^{II},Fe^{III},Al)_5 \cdot [Al_{0,5}Si_{7,5}O_{22}(O,OH,F)_2]$	d 1950
$(K,Na)_{0,5...1,0}Ca_2(Mg,Fe^{II})_{3...4} \cdot (Fe^{III},Al)_{2...1}[Al_2Si_6O_{22}(O,OH,F)_2]$	d 1953	<b>Al - Ca - F - Fe - H - Mg - O - Si</b>	
<b>Al - Ca - F - Fe - H - K - Mg - Na - O - Si - Ti</b>		$Ca_2Mg_3(Al,Fe^{III})_2[Al_2Si_6O_{22}(OH,F)_2]$	d 1948
$(K,Na)Ca_2(Mg,Fe^{II},Fe^{III})_4Ti \cdot [(Al_2Si_6O_{22})(O,OH,F)_2]$	d 1975	<b>Al - Ca - F - Fe - H - Na - O - Si</b>	
<b>Al - Ca - F - Fe - H - K - Mg - Na - O - P - Si - Y</b>		$NaCa_2Fe_4^{II}Al[Al_2Si_6O_{22}(OH,F)_2]$	d 1943
$(Y_{2,905}Ca_{1,388}Mn_{0,424}Fe_{0,115}^{III} \cdot Fe_{0,100}^{II}Al_{0,040}Na_{0,023}K_{0,015}) \cdot (Si_{2,694}P_{0,204}Al_{0,102}O_{12}(F_{0,581} \cdot (OH)_{0,279}O_{0,140}))$	d 2187	$NaCa_2Fe_4^{II}(Fe^{III},Al)[Al_2Si_6O_{22}(OH,F)_2]$	d 1945
<b>Al - Ca - F - Fe - H - K - Na - Nb - O - R - Si - Sr - Th - Ti - Zr</b>		$NaCa_2Fe_4^{II}[AlSi_7O_{22}(OH,F)_2]$	d 1946
$(K,Na,Sr,Ca,Fe^{II},Th,R)(Fe^{III},Al,Nb,Zr,Ti,Si)(O,OH,F)_3$	e 751	$Na_2CaFe_4^{II}(Fe^{III},Al)[AlSi_7O_{22}(OH,F)_2]$	d 1944
<b>Al - Ca - F - Fe - H - Li - Mg - Mn - Na - O - Si</b>		<b>Al - Ca - F - Fe - H - Na - O - Si - Ti</b>	
$(Na,Li,Ca,Mg)^{2\oplus}(Mg,Fe^{II},Fe^{III},Al,Mn^{II})^{6\oplus}Al_2[(Al,Si)_4O_{11}(OH,F)]_2$	d 1712	$NaCa_2Fe_4^{II}(Al,Ti)[Al_2Si_6O_{22}(O,OH,F)_2]$	d 1739
<b>Al - Ca - F - Fe - H - Li - Mg - Na - O - Si</b>		<b>Al - Ca - F - Fe - H - O - P</b>	
$Na_{2,5}Ca_{0,5}(Li,Mg,Fe^{II},Al,Fe^{III})_5 \cdot [Al_{0,5}Si_{7,5}O_{22}(OH,F)_2]$	d 1930	$(Ca,Fe)_2(Al,Fe)_4(PO_4)_4(OH,F)_4$	c 2370
<b>Al - Ca - F - Fe - H - Mg - Mn - Na - Nb - O - Si - Ti - Zr</b>		<b>Al - Ca - F - Fe - Mn - Na - Nb - O - Si - Ti</b>	
$(Na,Ca)_4(Mg,Mn,Fe^{II})(Ti,Nb,Al,Fe^{III})(Zr,Ti)_2[(Si_2O_7)O(OH,F)]_2$	d 1875	$Na_{0,10}Ca_{3,25}Mn_{0,07}Nb_{0,55}Fe_{0,02} \cdot Ti_{0,01}Al_{0,1}Si_{1,9}O_8(O,F)$	d 1831
<b>Al - Ca - F - Fe - H - Mg - Mn - Na - O - Si</b>		<b>Al - Ca - F - Fe - Mn - Na - O - P - R - S - Si - Sr</b>	
$Na_2(Ca,Mg,Mn^{II},Fe^{II},Fe^{III},Al)_5 \cdot [(Si_4O_{11})(OH,F)]_2$	d 2010	$(Na_{0,13}Sr_{0,01}Ca_{8,81}Mn_{0,03} \cdot (R)_{0,33}Fe_{0,02}^{III}Al_{0,24})[Si_{0,08}P_{5,63} \cdot S_{0,37}O_{24}]F_{2,06}$	d 2181
$Na_x(Ca,Mg,Fe^{II},Mn)_2[(Ca,Mg,Fe^{II},Mn)_{5-y}(Al,Fe^{III})_y] \cdot (Al_{x+y}Si_{8-x-y})O_{22}(OH,F)_2$	d 1934	<b>Al - Ca - F - H - Li - O - P</b>	
		$Li_2CaAl_4(PO_4)_4(OH,F)_4$	c 2365
		<b>Al - Ca - F - H - Mg - Na - O - Pb - Si</b>	
		$Na(Ca,Pb)_2Mg_4Al[Al_2Si_6O_{22}(OH,F)_2]$	d 1739
		<b>Al - Ca - F - H - Mg - Na - O - Si</b>	
		$(Na,Ca,Mg,Al)_{13}Si_{10}O_{28} \cdot (O,OH,F)_{10} \cdot 6H_2O$	d 2256
		$NaCa_2Mg_4Al[Al_2Si_6O_{22}(OH,F)_2]$	d 1739
		$NaCa_2Mg_5[AlSi_7O_{22}(OH,F)_2]$	d 1738
		<b>Al - Ca - F - H - Mn - Na - O - P</b>	
		$(Mn,Na,Ca)_3(Al,Mn)_2[PO_3 \cdot (OH,F)]_3$	c 2425
		<b>Al - Ca - F - H - Na - O</b>	
		$NaCaAlF_6 \cdot H_2O$ (I)	a 2089
		$NaCaAlF_6 \cdot H_2O$ (II)	a 2090

## 2 Alphabetisches Formelverzeichnis

<b>Al - Cs - F - H - Na - O - P</b>	
$\text{NaCa}_2\text{Al}_2(\text{PO}_4)_2(\text{F},\text{OH})_5 \cdot 2\text{H}_2\text{O}$	c 2375
$\text{NaCa}_2\text{Al}_2(\text{PO}_4)_2(\text{OH},\text{F})_5 \cdot 1,5\text{H}_2\text{O}$	c 2375
<b>Al - Ca - F - H - O</b>	
$\text{CaAl}_2(\text{F},\text{OH})_8$	d 7949
$\text{CaAl}_2(\text{OH})_4\text{F}_4$	d 7949
$\text{CaAl}_2\text{O}_2\text{F}_4 \cdot 2\text{H}_2\text{O}$	d 7949
$\text{Ca}_2\text{Al}_2\text{OF}_8 \cdot 3\text{H}_2\text{O}$	d 7948
$\text{Ca}_3[\text{AlF}_5(\text{OH})]_2 \cdot \text{H}_2\text{O}$	d 7950
$\text{Ca}_3\text{Al}_2\text{OF}_{10} \cdot 2\text{H}_2\text{O}$	d 7950
<b>Al - Ca - F - H - O - P - R - Si</b>	
$(\text{Ca},\text{R})_{2,06}(\text{Si},\text{Al},\text{P})_{1,14}(\text{O},\text{OH},\text{F})_{5,37}$	d 1777
<b>Al - Ca - F - H - O - P - Si - Y</b>	
$(\text{Ca}_{0,634}\text{Y}_{0,636})_{10}(\text{Si}_{0,903}\text{Al}_{0,037}\text{P}_{0,060})_6\text{O}_{12}(\text{OH},\text{F})_{1,25}\text{O}_{0,50}$	d 2187
<b>Al - Ca - F - H - O - R - S</b>	
$(\text{Ca}_3\text{R})[(\text{AlF}_6)_2\text{SO}_4(\text{OH})] \cdot 11\text{H}_2\text{O}$	b 3835
<b>Al - Ca - F - H - O - S</b>	
$\text{Ca}_3\text{Al}_2\text{SO}_4(\text{OH})_2\text{F}_8 \cdot 2\text{H}_2\text{O}$	b 3933
<b>Al - Ca - F - H - O - Sr</b>	
$(\text{Sr},\text{Ca})_2[\text{Al}_2\text{F}_8(\text{OH})_2] \cdot 2\text{H}_2\text{O}$	d 7951
<b>Al - Ca - F - Li</b>	
$\text{LiCaAlF}_6$	a 690
<b>Al - Ca - F - Mg - Na - O - Si</b>	
$\text{NaCa}_2\text{Mg}_5[(\text{AlSi}_7\text{O}_{22})\text{F}_2]$	d 1512
<b>Al - Ca - F - Na - O - Si</b>	
$(\text{Ca}_2\text{Al}[(\text{Al},\text{Si})_2\text{O}_7])_{1-x}(\text{NaF})_x$	d 1569
$(\text{Na},\text{Ca})_2\text{Al}[(\text{Al},\text{Si})_2(\text{O},\text{F})_7]$	d 1569
<b>Al - Ca - F - O</b>	
$\text{CaAl}_{10}\text{O}_{15}\text{F}_2$	d 7928
$\text{Ca}_2\text{Al}_3\text{O}_6\text{F}$	d 7921
$\text{Ca}_6\text{Al}_7\text{O}_{16}\text{F}$	d 7926
<b>Al - Ca - F - O - P</b>	
$(\text{Ca},\text{Al})_{10}[(\text{P},\text{Al})\text{O}_4]_6\text{F}_2$	c 2234
<b>Al - Ca - F - O - P - Si - Th - Y</b>	
$(\text{Ca},\text{Th},\text{Y})_{10}[(\text{SiO}_4),(\text{PO}_4),(\text{AlO}_4)]_6 \cdot (\text{O},\text{F})_2$	d 2187
<b>Al - Ca - Fe - Cd - O - Si</b>	
$(\text{Ca}_{1-x}\text{Gd}_x)_3(\text{Al}_{1-x}\text{Fe}_x)_2[(\text{SiO}_4)_{1-x} \cdot (\text{FeO}_4)_x]_3$	d 1022
<b>Al - Ca - Fe - Ge - O</b>	
$\text{Ca}_3\text{AlFe}(\text{GeO}_4)_3$	d 2920
<b>Al - Ca - Fe - H - K - La - Mg - Nb - O - P - Si - Ti - Tl</b>	
$(\text{H}_2\text{O})_{12}\text{K}_{0,4}\text{Ca}_{0,45}\text{La}_{0,63}\text{Th}_{0,26} \cdot \text{Ti}_{1,67}\text{Nb}_{0,47}\text{Fe}_{0,57}\text{Mg}_{0,4}\text{Al}_{2,2} \cdot \text{Si}_{9,3}\text{P}_{2,45}\text{O}_{21,3}$	d 2358
<b>Al - Ca - Fe - H - K - Mg - Mn - Na - O - Si</b>	
$(\text{K},\text{Na},\text{Ca})(\text{Mg},\text{Mn},\text{Fe}^{\text{II}})[\text{Al}_4\text{Si}_5\text{O}_{18}] \cdot 0,5\text{H}_2\text{O}$	d 1325
$(\text{K},\text{Na},\text{Ca},\text{Mn},\text{Fe}^{\text{II}},\text{Mg},\text{Al},\text{Fe}^{\text{III}})_7 \cdot [(\text{Al},\text{Si})_4\text{O}_{11}(\text{O},\text{OH})]_2$	d 1883
<b>Al - Ca - Fe - H - K - Mg - Mn - Na - O - Si - Ti</b>	
$(\text{K},\text{Na},\text{Ca})_3(\text{Mg},\text{Fe}^{\text{II}},\text{Fe}^{\text{III}},\text{Al},\text{Mn},\text{Ti})_5[(\text{Al},\text{Si})_8(\text{O},\text{OH})_{24}]$	d 1976
$(\text{K},\text{Na},\text{Ca})_{<2}(\text{Mg},\text{Fe}^{\text{II}},\text{Fe}^{\text{III}},\text{Mn},\text{Ti},\text{Al})_5[\text{Si}_8\text{O}_{22}(\text{OH})_2]$	d 2011
$(\text{K},\text{Na},\text{Ca})(\text{Mg},\text{Fe}^{\text{II}},\text{Mn})_3 \cdot [(\text{Al},\text{Fe}^{\text{IV}},\text{Ti},\text{Si})_4\text{O}_{10}(\text{OH})_2]$	d 1894
$(\text{K},\text{Na},\text{Ca})_{>2}(\text{Mg},\text{Fe}^{\text{II}},\text{Mn})_{>3} \cdot (\text{Fe}^{\text{III}},\text{Ti},\text{Al})_{<2}[(\text{Al},\text{Si})_8\text{O}_{22} \cdot (\text{O},\text{OH})_2]$	d 1953
$(\text{K},\text{Na},\text{Ca})_2(\text{Mg},\text{Fe}^{\text{II}},\text{Mn},\text{Ti},\text{Al})_3 \cdot (\text{Fe}^{\text{III}},\text{Al})_2[\text{Si}_4\text{O}_{11}(\text{OH})]_2$	d 1931
$(\text{K},\text{Na},\text{Ca})_2(\text{Mg},\text{Fe}^{\text{II}},\text{Ti},\text{Mn})_3 \cdot (\text{Al},\text{Fe}^{\text{III}})_2[\text{Al}_2\text{Si}_6\text{O}_{22}(\text{OH})_2]$	d 1954
$(\text{K},\text{Na},\text{Ca},\text{Mg},\text{Mn})_2(\text{Al},\text{Fe},\text{Mn},\text{Ti})_3[\text{Si}_3\text{O}_{12}(\text{OH})]$	d 2009
$(\text{K},\text{Na},\text{Ca})_4(\text{Mg},\text{Mn},\text{Fe},\text{Al},\text{Ti})_{48} \cdot [(\text{Al},\text{Si})_{72}(\text{O},\text{OH})_{216}] \cdot n\text{H}_2\text{O}$	d 2319
$(\text{K},\text{Na},\text{Ca},\text{Mg},\text{Mn})(\text{Fe}^{\text{III}},\text{Al},\text{Ti}^{\text{III,IV}},\text{Si})_6\text{O}_{12} \cdot 4\text{H}_2\text{O}$	e 1260
$(\text{K},\text{Na},\text{Ca},\text{Mn})_3(\text{Mg},\text{Mn},\text{Fe}^{\text{II}},\text{Fe}^{\text{III}},\text{Ti},\text{Al})_5[(\text{Al},\text{Si})_8\text{O}_{22}(\text{OH})_2]$	d 1944
$(\text{K},\text{Na})(\text{Na},\text{Ca})_2(\text{Mg},\text{Fe},\text{Mn},\text{Al},\text{Ti})_5[(\text{Al},\text{Si})_8\text{O}_{22}(\text{O},\text{OH})_2]$	d 2021
<b>Al - Ca - Fe - H - K - Mg - Mn - Na - O - Si - Zn</b>	
$(\text{K},\text{Na},\text{Ca})_{0,5}(\text{Zn},\text{Mg},\text{Mn},\text{Fe}^{\text{II}},\text{Al})_{4,8}[\text{Si}_6\text{O}_{15}(\text{OH})_5] \cdot 2\text{H}_2\text{O}$	d 2335
<b>Al - Ca - Fe - H - K - Mg - Mn - O - Si</b>	
$(\text{K},\text{Ca},\text{Mg})_{0,39}(\text{Mg},\text{Mn},\text{Fe},\text{Al})_2 \cdot [(\text{Al},\text{Si})_4\text{O}_{10}(\text{OH})_2] \cdot x\text{H}_2\text{O}$	d 2334
<b>Al - Ca - Fe - H - K - Mg - Na - O - Si</b>	
$(\text{Fe}^{\text{II}},\text{Fe}^{\text{III}},\text{Al},\text{Mg},\text{Ca})_{\approx 5,4} \cdot (\text{K},\text{Na})_{0,3}[(\text{Si}_4\text{O}_{10})(\text{OH})_8]$	d 1879
$\text{K}_{0,02}\text{Na}_{0,01}\text{Ca}_{0,15}\text{Mg}_{1,54}\text{Fe}_{0,50}^{\text{II}} \cdot \text{Fe}_{0,74}^{\text{III}}[\text{Al}_{0,53}\text{Si}_{3,43}\text{O}_{10}(\text{OH})_2] \cdot 4,5\text{H}_2\text{O}$	d 2321
$(\text{K}_{0,58}\text{Na}_{0,09}\text{Ca}_{0,57})(\text{Mg}_{0,04}\text{Fe}_{0,07} \cdot \text{Al}_{1,2,05})(\text{Al}_{2,28}\text{Si}_{13,72})\text{O}_{40} \cdot (\text{OH})_{\dots} \cdot 8,88\text{H}_2\text{O}$	d 2282
$(\text{K}_{0,7}\text{Na}_{0,2}\text{Ca}_{0,2})(\text{Mg}_{0,5}\text{Fe}_{0,2}\text{Al}_{1,3}) \cdot [\text{Al}_{0,8}\text{Si}_{3,2}\text{O}_{10}(\text{OH})_2] \cdot x\text{H}_2\text{O}$	d 2323
$(\text{K},\text{Na},\text{Ca})_{<1}(\text{Al},\text{Fe},\text{Mg})_2 \cdot [\text{Al}_{0,35}\text{Si}_{3,65}\text{O}_{10}(\text{OH})_2]$	d 1955

$(\text{K}, \text{Na}, \text{Ca}, \text{Mg})_{4,38}(\text{Al}, \text{Fe})_{7,07} \cdot \text{Si}_{19,60} \text{O}_{54} \cdot 14,11 \text{H}_2\text{O}$	d 1351	$[\text{K}_{1,30} \text{Na}_{0,38} (\text{H}_3\text{O})_{0,43}^{\oplus} \cdot [(\text{Al}_{3,88} \text{Ca}_{0,04} \text{Fe}_{0,03}) (\text{Al}_{1,89} \cdot \text{Si}_{6,11}) \text{O}_{20}] [\text{OH}]_4]$	d 2275
$(\text{K}, \text{Na}, \text{Ca})_{\approx 0,8} (\text{Mg}, \text{Fe}, \text{Al})_9 \cdot [(\text{Al}, \text{Si})_8 \text{O}_{20} (\text{OH})_{10}] \cdot \approx 5 \text{H}_2\text{O}$	d 2322	<b>Al - Ca - Fe - H - Li - Mg - Mn - Na - O - Si</b>	
$(\text{K}, \text{Na}, \text{Ca}, \text{Mg}, \text{Fe})[(\text{Al}, \text{Si})_9 \text{O}_{18}] \cdot x \text{H}_2\text{O}$	d 1369	$(\text{Na}, \text{Li}) \text{H} (\text{Ca}, \text{Mg}, \text{Fe}, \text{Al}, \text{Mn})_4 \text{Si}_5 \cdot \text{O}_{15}$	d 870
$(\text{K}, \text{Na})_{1,5} (\text{Ca}, \text{Mg})_2 (\text{Fe}, \text{Al})_{5,5} \text{Si}_{30,5} \cdot \text{O}_{72} \cdot 18 \text{H}_2\text{O}$	d 1330	<b>Al - Ca - Fe - H - Mg - Mn - Na - O - P - R - Si</b>	
$(\text{K}, \text{Na}, \text{Ca}, \text{Mg}, \text{Fe})_6 [\text{Al}_{10} \text{Si}_{26} \text{O}_{72}] \cdot x \text{H}_2\text{O}$	d 1369	$(\text{Na}_{0,77} \text{Ca}_{4,32} \text{Mn}_{0,12} \text{Mg}_{0,07} \cdot (\text{R})_{5,49} \text{Fe}_{0,15} \text{Al}_{0,57}) [(\text{Si}_{4,98} \text{P}_{1,01}) \cdot \text{O}_{24} (\text{O}, \text{OH})_2]$	d 2181
$(\text{K}, \text{Na}, \text{Ca}) (\text{Mg}, \text{Fe}^{\text{II}}, \text{Al})_2 [(\text{Al}, \text{Si})_4 \cdot \text{O}_{10} (\text{OH})_2]$	d 1684	<b>Al - Ca - Fe - H - Mg - Mn - Na - O - Si</b>	
$(\text{K}, \text{Na}, \text{Ca}) (\text{Mg}, \text{Fe}^{\text{II}})_2 (\text{Al}, \text{Fe}^{\text{II}}, \text{Fe}^{\text{III}})_3 \cdot [(\text{Al}, \text{Si})_{12} \text{O}_{30}] \cdot \text{H}_2\text{O}$	d 1485	$(\text{Na}, \text{Ca}, \text{Fe}^{\text{II}})_2 \text{Al}_2 (\text{Mg}, \text{Fe}^{\text{II}}, \text{Fe}^{\text{III}}, \text{Al}, \text{Mn}^{\text{II}}) [((\text{Al}, \text{Si}) \text{O}_4) ((\text{Al}, \text{Si})_2 \cdot (\text{O}, \text{OH})_7)]$	d 2320
$(\text{K}, \text{Na}, \text{Ca})_2 (\text{Mg}, \text{Fe}^{\text{II}})_3 (\text{Al}, \text{Fe}^{\text{III}})_2 \cdot [\text{Al}_2 \text{Si}_6 \text{O}_{22} (\text{OH})_2]$	d 1954	$(\text{Na}, \text{Ca}, \text{Mg}, \text{Fe}, \text{Al}, \text{Mn})_2 (\text{Al}, \text{Si})_2 \cdot (\text{O}, \text{OH})_6$	d 966
$(\text{K}, \text{Na}, \text{Ca}) (\text{Mg}, \text{Fe}^{\text{III}}, \text{Al})_2 [(\text{Al}, \text{Si})_4 \cdot \text{O}_{10} (\text{OH})_2]$	d 1685	$(\text{Na}, \text{Ca}, \text{Mg}, \text{Mn}, \text{Fe})_{\approx 2} [(\text{Al}, \text{Fe}^{\text{III}})_4 \cdot \text{Si}_5 \text{O}_{18}] \cdot 0,67 \text{H}_2\text{O}$	d 1491
$\text{K}_{2,06} \text{Na}_{1,32} \text{Ca}_{0,72} \text{Mg}_{2,49} \text{Fe}_{0,34}^{\text{II}} \cdot \text{Al}_{13,16} \text{Si}_{23,60} \text{O}_{72} \cdot 27,6 \text{H}_2\text{O}$	d 1390	$(\text{Na}, \text{Ca}, \text{Mn}, \text{Fe}^{\text{II}}, \text{Mg}, \text{Al}, \text{Fe}^{\text{III}})_7 \cdot [(\text{Al}, \text{Si})_4 \text{O}_{11} (\text{O}, \text{OH})_2]$	d 1885
<b>Al - Ca - Fe - H - K - Mg - Na - O - Si - Sr</b>		$(\text{Na}, \text{Ca}, \text{Mn}, \text{Mg}, \text{Fe})_{6,09} [(\text{Al}, \text{Si})_{7,99} \cdot \text{O}_{22} (\text{OH})_2]$	d 1993
$(\text{K}_2, \text{Na}_2, \text{Sr}, \text{Ca}, \text{Mg})_2 [(\text{Al}, \text{Fe})_4 \text{Si}_{14} \cdot \text{O}_{36}] \cdot 14 \text{H}_2\text{O}$	d 1486	<b>Al - Ca - Fe - H - Mg - Mn - Na - O - Si - Ti</b>	
<b>Al - Ca - Fe - H - K - Mg - Na - O - Si - Ti</b>		$(\text{K}, \text{Na}, \text{Ca})_{1,45} (\text{Mg}, \text{Al}, \text{Fe}, \text{Ti})_4 \cdot [(\text{Al}, \text{Si})_8 \text{O}_{20} (\text{OH})_4] \cdot 4,25 \text{H}_2\text{O}$	d 2324
$(\text{K}, \text{Na}, \text{Ca})_{1,45} (\text{Mg}, \text{Al}, \text{Fe}, \text{Ti})_4 \cdot [(\text{Al}, \text{Si})_8 \text{O}_{20} (\text{OH})_4] \cdot 4,25 \text{H}_2\text{O}$	d 2324	$(\text{K}, \text{Na}, \text{Ca}) (\text{Mg}, \text{Fe}, \text{Al})_2 [\text{Al} \cdot (\text{Si}, \text{Ti})_3 \text{O}_{10} (\text{OH})_2]$	d 1974
$(\text{K}, \text{Na}, \text{Ca}) (\text{Mg}, \text{Fe}, \text{Al})_2 [\text{Al} \cdot (\text{Si}, \text{Ti})_3 \text{O}_{10} (\text{OH})_2]$	d 1974	$(\text{K}, \text{Na}) (\text{Na}, \text{Ca})_2 (\text{Mg}, \text{Fe}, \text{Al}, \text{Ti})_5 \cdot [(\text{Al}, \text{Si})_8 \text{O}_{22} (\text{O}, \text{OH})_2]$	d 1977
$(\text{K}, \text{Na}) (\text{Na}, \text{Ca})_2 (\text{Mg}, \text{Fe}, \text{Al}, \text{Ti})_5 \cdot [(\text{Al}, \text{Si})_8 \text{O}_{22} (\text{O}, \text{OH})_2]$	d 1977	<b>Al - Ca - Fe - H - K - Mg - O - P - Si - X</b>	
<b>Al - Ca - Fe - H - K - Mg - O - P - Si - X</b>		$(\text{K}, \text{Ca}, \text{H}_2\text{O}) (\text{Al}, \text{Fe}, \text{Mg})_3 [(\text{Si}, \text{P})_4 \cdot \text{O}_{10} (\text{OH}, \text{O})_2] \cdot \text{X}_n \cdot (\text{H}_2\text{O})_4$	d 2283
$(\text{K}, \text{Ca}, \text{H}_2\text{O}) (\text{Al}, \text{Fe}, \text{Mg})_3 [(\text{Si}, \text{P})_4 \cdot \text{O}_{10} (\text{OH}, \text{O})_2] \cdot \text{X}_n \cdot (\text{H}_2\text{O})_4$	d 2283	<b>Al - Ca - Fe - H - K - Mg - O - Si</b>	
<b>Al - Ca - Fe - H - K - Mg - O - Si</b>		$(\text{K}, \text{Ca}, \text{Fe})_{0,2} \text{Mg}_4 \text{Al}_{1,2} [(\text{Al}_{1,2} \text{Si}_{2,8}) \cdot \text{O}_{9,2} (\text{OH})_{8,8}]$	d 1917
$(\text{K}, \text{Ca}, \text{Fe})_{0,2} \text{Mg}_4 \text{Al}_{1,2} [(\text{Al}_{1,2} \text{Si}_{2,8}) \cdot \text{O}_{9,2} (\text{OH})_{8,8}]$	d 1917	<b>Al - Ca - Fe - H - K - Mn - Na - O - Si</b>	
<b>Al - Ca - Fe - H - K - Mn - Na - O - Si</b>		$(\text{K}, \text{Na})_6 (\text{Ca}, \text{Mn}, \text{Fe}) (\text{Al}, \text{Fe})_4 \text{Si}_8 \cdot \text{O}_{26} \cdot \text{H}_2\text{O}$	d 1492
$(\text{K}, \text{Na})_6 (\text{Ca}, \text{Mn}, \text{Fe}) (\text{Al}, \text{Fe})_4 \text{Si}_8 \cdot \text{O}_{26} \cdot \text{H}_2\text{O}$	d 1492	$(\text{K}, \text{Na}, \text{Ca})_{1,7} (\text{Mn}, \text{Fe}^{\text{III}}, \text{Al})_{4,7} \cdot [(\text{Al}, \text{Si})_6 \text{O}_{15} (\text{OH})_5] \cdot 2 \text{H}_2\text{O} \text{ (I)}$	d 2332
$(\text{K}, \text{Na}, \text{Ca})_{1,7} (\text{Mn}, \text{Fe}^{\text{III}}, \text{Al})_{4,7} \cdot [(\text{Al}, \text{Si})_6 \text{O}_{15} (\text{OH})_5] \cdot 2 \text{H}_2\text{O} \text{ (I)}$	d 2332	$(\text{K}, \text{Na}, \text{Ca})_{1,7} (\text{Mn}, \text{Fe}^{\text{III}}, \text{Al})_{4,7} \cdot [(\text{Al}, \text{Si})_6 \text{O}_{15} (\text{OH})_5] \cdot 2 \text{H}_2\text{O} \text{ (II)}$	d 2333
$(\text{K}, \text{Na}, \text{Ca})_{1,7} (\text{Mn}, \text{Fe}^{\text{III}}, \text{Al})_{4,7} \cdot [(\text{Al}, \text{Si})_6 \text{O}_{15} (\text{OH})_5] \cdot 2 \text{H}_2\text{O} \text{ (II)}$	d 2333	<b>Al - Ca - Fe - H - K - Na - O - Si</b>	
<b>Al - Ca - Fe - H - K - Na - O - Si</b>		$(\text{K}, \text{Na}, \text{Ca}) [(\text{Fe}^{\text{III}}, \text{Al}, \text{Si})_4 \text{O}_8] \cdot 4 \text{H}_2\text{O}$	d 1335
$(\text{K}, \text{Na}, \text{Ca}) [(\text{Fe}^{\text{III}}, \text{Al}, \text{Si})_4 \text{O}_8] \cdot 4 \text{H}_2\text{O}$	d 1335	$(\text{K}_{1,08} \text{Na}_{3,88} \text{Ca}_{2,32}) [\text{Fe}_{0,18}^{\text{III}} \cdot \text{Al}_{10,73} \text{Si}_{25,45} \text{O}_{72}] \cdot x \text{H}_2\text{O}$	d 1386
$(\text{K}_{1,08} \text{Na}_{3,88} \text{Ca}_{2,32}) [\text{Fe}_{0,18}^{\text{III}} \cdot \text{Al}_{10,73} \text{Si}_{25,45} \text{O}_{72}] \cdot x \text{H}_2\text{O}$	d 1386		

**Al - Ca - Fe - H - Mg - Mn - O - Si**

- $\{(Ca, Mg, Mn, Fe^{II}, Fe^{III})_3[(Al, Si)_4 \cdot O_{10}(OH)_2]\}[(Mg, Mn^{III}, Fe^{II}, Fe^{III})_3(O, OH)_6]$  d 2026
- $(Ca, Mg, Mn^{II}, Fe^{II})_3[(Al, Si)_4 O_{10} \cdot (OH)_2] \cdot 4H_2O$  d 2321
- $(Ca, Mn, Fe, Mg)_7[(Al, Si)_4 O_{11} \cdot (OH)_2]$  d 1886
- $(Mn, Fe, Mg, Ca)_9[(Si, Al)_{10} O_{23} \cdot (OH)_9]$  d 1849

**Al - Ca - Fe - H - Mg - Mn - O - Si - Ti**

- $(Ca, Mg, Mn, Fe^{II}, Fe^{III}, Al, Ti)_6 \cdot [(Al, Si)_4 O_{10}(OH)_8]$  d 1919
- $Ca_4(Mg, Fe, Mn, Al, Ti)_6 Si_6 O_{23} \cdot (OH) \cdot 2H_2O$  d 2320

**Al - Ca - Fe - H - Mg - Na - O - Si**

- $(Na_{0.12} Ca_{0.035})(Mg_{0.64} Fe_{0.03} \cdot Al_{1.43})[(Al_{0.01} Si_{3.99}) O_{10}(OH)_2]$  d 1951
- $(Na, Ca)_{0.33}(Mg, Fe^{II})_3[(Al, Si)_4 O_{10} \cdot (OH)_2] \cdot 4H_2O$  d 2321
- $NaCa_2Mg_4Fe^{III}[Al_2Si_6O_{22}(OH)_2]$  d 1945

**Al - Ca - Fe - H - Mg - O - S**

- $Mg_7Ca(Al, Fe)_2(OH)_{18}(SO_4)_2 \cdot 12H_2O$  d 7980

**Al - Ca - Fe - H - Mg - O - Si**

- $\{Al_4(Al_{1.94} Si_{6.06}) O_{20}(OH)_4\} \cdot \{(Ca_{0.3} Mg_{3.26} Fe_{0.36} Al_{2.06}) \cdot (OH)_{12}\}$  d 1949
- $(Ca, Mg, Al, Fe)_2[(Al, Si)_4 O_{10}(OH)_2]$  d 1668
- $Ca(Mg, Al, Fe)_3[(Al, Si)_4 O_{10}(OH)_2]$  d 1737
- $(Ca, Mg, Fe)_2(Al, Fe)_3[(Al, Si)_4 O_{10} \cdot (OH)] \cdot 1,45H_2O$  d 1924
- $(Ca, Mg, \dots)_{3.37}(Fe, Al, \dots)_{2.00} \cdot (SiO_4)_{2.26}(OH)_{2.96}$  d 1725
- $(Ca, Mg, Fe^{II})_2 Al_3[AlSi_3O_{10}(OH)_8]$  d 1949
- $Ca_2(Mg, Fe, Al)_3[Si_3O_{11}(OH)_2]$  d 2320
- $Ca_2(Mg, Fe, Al)_3[(Si_3O_{11}) \cdot (OH, H_2O)_3]$  d 2320
- $Ca_2Mg_3Fe_{1.5 \dots 2}[(Al, Fe)Si_7O_{22} \cdot (O, OH)_2]$  d 1952

- $Ca_{10}(Mg, Fe)_2 Al_4[(Si_9O_{34})(OH)_4]$  d 1947
- $Ca_{10}Mg_2(Al, Fe)_4[(Si_9O_{34})(OH)_4]$  d 1947
- $(Fe^{III}, Al, Mg)_5Ca_2[(Al, Si)_4 O_{11} \cdot (OH)_2]$  d 1934
- $(Mg_{2.0} Ca_{0.2} Fe_{0.5} Al_{5.3}) Si_{4.0} O_{17.6} \cdot (OH)_{2.4}$  d 1915

**Al - Ca - Fe - H - Mg - O - Si - Ti**

- $(Ca, Mg)_3(Fe, Al, Ti)_2[(SiO_4)_3 - x \cdot (OH)_{4x}]$  d 1973

**Al - Ca - Fe - H - Mn - O - P - Si**

- $(Ca, Mn, Fe) Al_2[(SiO_4, PO_4)(OH)]_2$  (I) d 2195
- $(Ca, Mn, Fe) Al_2[(SiO_4, PO_4)(OH)]_2$  (II) d 2196

**Al - Ca - Fe - H - Mn - O - Si**

- $(Ca_2Al_2(Fe^{III}, Al)[Si_3O_{10}(OH)]_x \cdot (Ca_2Mn^{III}Al_2[Si_3O_{10}(OH)]_{1-x} \cdot Ca_2(Mn^{III}, Fe^{III})Al_2[Si_3O_{12}(OH)]$  d 2009
- d 2009

**Al - Ca - Fe - H - Mn - O - Si - Ti**

- $Ca_2(Al_{2.15} Fe_{0.81} Ti_{0.02} Mn_{0.02}) Si_3 \cdot O_{13}H$  d 1940

**Al - Ca - Fe - H - Na - O - Si**

- $NaCa_2Fe_4^{III}Fe^{III}[Al_2Si_6O_{22}(OH)_2]$  d 1945
- $Na_2Ca_{0.5}Fe_{3.5}^{II}Fe_{1.5}^{III}Al_{0.5}Si_{7.5} \cdot O_{22}(OH)_2$  d 1930
- $Na_2CaFe_3^{III}Fe^{III}[AlSi_3O_{11}(OH)]_2$  d 1942

**Al - Ca - Fe - H - O**

- $Ca_3[(Al, Fe)(OH)_6]_2$  d 7919
- $Ca_3(Al_{1-x}Fe_x)_2(OH)_{12}$  f 3654
- $Ca_3Fe_xAl_{2-x}O_6 \cdot 6H_2O$  d 7919
- $Ca_4(Al_xFe_{1-x})_2O_7 \cdot 13H_2O$  f 3649

**Al - Ca - Fe - H - O - P**

- $Ca(Al, Fe^{III})_3(PO_4)_2O(OH)_3 \cdot 2H_2O$  c 2353

**Al - Ca - Fe - H - O - S**

- $Ca_4(Al_{1-x}Fe_x)_2SO_4(OH)_{12} \cdot 6H_2O$  b 3921
- $Ca_6Al_{2-x}Fe_x(SO_4)_3(OH)_{12} \cdot 26H_2O$  b 3920

**Al - Ca - Fe - H - O - Si**

- $Ca_2(Al, Fe^{III})_3[Si_3O_{12}(OH)]$  d 1722
- $Ca_2Al_2(Fe^{III}, Al)[Si_3O_{12}(OH)]$  d 1940
- $Ca_2Al_{2.16}Fe_{0.84}Si_3O_{13}H$  d 1940
- $Ca_2Al_{2.60}Fe_{0.40}Si_3O_{13}H$  d 1940
- $Ca_2(Al_{1-x}Fe_x)_3[Si_3O_{12}(OH)]$  d 1940
- $Ca_2(Al_{1-x}Fe_x^{III})Al_2[Si_3O_{12}(OH)]$  d 1940
- $[Ca_3Fe_2(SiO_4)_3]_x[Ca_3Al_2 \cdot (OH)_{12}]_{1-x}$  d 1941
- $Ca_3\{(SiO_4)_y[(Al, Fe_{1-x}) \cdot (O \cdot H)_{6-2y}]_2\}$  d 1941

**Al - Ca - Fe - K - Li - Na - O - Pb - Rb - Si - Sr**

- $(Rb, K, Na, Li, Sr, Ca, Pb)(Al, Fe)Si_3 \cdot O_8$  d 271

**Al - Ca - Fe - K - Mg - Mn - Na - O - R - Si - Sr - Tb - Ti**

- $(K, Na, Sr, Ca, Th, R)_4(Ca, Mg, Mn, Fe^{II})(Mg, Mn, Fe^{II, III}, Al, Ti)_4Si_4 \cdot O_{22}$  d 1048
- d 794

**Al - Ca - Fe - K - Mg - Mn - Na - O - Si**

- $(K, Na, Ca, Mg, Mn, Fe, Al)_2SiO_5$  d 1081

<b>Al - Ca - Fe - K - Mg - Na - O - Si</b> (K,Na,Ca)(Mg,Fe <sup>II</sup> ) <sub>2</sub> (Al,Fe <sup>II</sup> ,Fe <sup>III</sup> ) <sub>3</sub> · [(Al,Si) <sub>12</sub> O <sub>30</sub> ]	d 1485	<b>Al - Ca - Fe - Mg - Mn - O - Si - Sr</b> (Sr,Ca,Mn) <sub>2</sub> (Mg,Fe,Al) <sub>2</sub> SiO <sub>7</sub>	d 333
<b>Al - Ca - Fe - K - Mg - Na - O - Si - Sr</b> (K,Na,Sr,Ca) <sub>2</sub> (Mg,Fe,Al) · (Al,Si) <sub>2</sub> O <sub>7</sub>	d 379	<b>Al - Ca - Fe - Mg - Mn - O - Si - Ti</b> (Ca,Mg,Fe,Mn) <sub>3</sub> (Al,Fe,Ti) <sub>2</sub> · (SiO <sub>4</sub> ) <sub>3</sub>	d 337
<b>Al - Ca - Fe - K - Mg - Na - O - Si - Ti</b> (K,Na,Ca,Mg,Fe)[(Fe,Al,Ti,Si) <sub>4</sub> · O <sub>8</sub> ]	d 362	(Ca,Mg,Fe,Mn) <sub>7</sub> [(Al,Ti,Si) <sub>7</sub> O <sub>21</sub> ]	d 955
(K,Na)Ca <sub>2</sub> (Mg,Fe <sup>II</sup> ,Fe <sup>III</sup> ) <sub>4</sub> Ti · [(Al <sub>2</sub> Si <sub>6</sub> O <sub>22</sub> )(O <sup>2-</sup> ) <sub>2</sub> ]	d 1976	(Ca,Mg,Fe,Mn,Ti) <sub>2</sub> (Al,Si) <sub>2</sub> O <sub>4</sub>	d 1073
(K,Na) <sub>0,5</sub> (K,Na,Ca) <sub>2</sub> (Mg,Fe <sup>II</sup> ) <sub>3</sub> · (Fe <sup>III</sup> ,Al,Ti) <sub>2</sub> [Al <sub>2</sub> Si <sub>6</sub> O <sub>24</sub> ]	d 1037	(Ca,Mg,Mn,Fe <sup>II</sup> ) <sub>3</sub> (Al,Fe <sup>III</sup> ) <sub>2</sub> · [(Ti,Si) <sub>4</sub> O <sub>4</sub> ] <sub>3</sub>	d 1097B
<b>Al - Ca - Fe - K - Mg - O - P - Si</b> (K,Ca,Mg)(Al,Fe)(Si,P)O <sub>4</sub>	d 258	<b>Al - Ca - Fe - Mg - Mn - O - Si - V</b> {Ca,Mg,Mn} <sub>3</sub> [V,Al,Fe] <sub>2</sub> (SiO <sub>4</sub> ) <sub>3</sub>	d 1101
<b>Al - Ca - Fe - K - Mg - O - Si</b> (K,Ca,Mg,Fe) <sub>0,5</sub> (Si <sub>29</sub> Al)O <sub>60</sub>	b 675	<b>Al - Ca - Fe - Mg - Mn - O - Si - Zn</b> (Ca,Mg,Zn,Mn,Fe) <sub>2</sub> (Al,Si) <sub>2</sub> O <sub>6</sub>	d 931
<b>Al - Ca - Fe - K - Na - O - Si</b> (K,Na,Ca)(Fe,Al)Si <sub>2</sub> O <sub>6</sub>	d 265	<b>Al - Ca - Fe - Mg - Na - O - Si</b> (Na,Ca)(Mg,Al,Fe <sup>II,III</sup> )[Si <sub>2</sub> O <sub>6</sub> ]	d 996
<b>Al - Ca - Fe - La - O - Si - Ti</b> (La <sub>3</sub> Ca)Fe <sup>II</sup> (AlTi)Ti <sub>2</sub> Si <sub>4</sub> O <sub>22</sub>	d 1039	(Na,Ca)(Mg,Fe,Al)(Al,Si) <sub>2</sub> O <sub>6</sub>	d 243
<b>Al - Ca - Fe - Mg - Mn - Na - O - Si</b> (Na,Ca,Mg,Fe,Mn,Al)(Al,Si) <sub>2</sub> O <sub>3</sub>	d 61	(Na,Mg,Ca,Al,Fe) <sub>2</sub> Si <sub>2</sub> O <sub>6</sub>	d 997
(Na,Ca,Mg)(Mn,Fe,Al)(Al,Si) <sub>2</sub> O <sub>6</sub>	d 882	<b>Al - Ca - Fe - Mg - Na - O - Si - Ti</b> (Na,Ca,Mg,Fe,Ti,Al) <sub>2</sub> (Al,Si) <sub>2</sub> O <sub>6</sub> ]	d 1035
<b>Al - Ca - Fe - Mg - Mn - Na - O - Si - Sr - Ti</b> (Na,Sr,Ca,Mn)(Mg,Fe,Al,Ti) · [(Al,Si) <sub>2</sub> O <sub>6</sub> ]	d 996	<b>Al - Ca - Fe - Mg - Nb - O - Si - Ti - Zr</b> Ca <sub>3</sub> (Mg,Fe <sup>II</sup> ,Zr,Ti,Nb <sup>V</sup> )[(Fe <sup>III</sup> ,Al, Si) <sub>3</sub> O <sub>12</sub> ]	d 818
<b>Al - Ca - Fe - Mg - Mn - Na - O - Si - Ti</b> (Na,Ca)(Mg,Fe,Mn,Ti)(Al,Ti,Si) <sub>2</sub> · O <sub>6</sub>	d 962B	<b>Al - Ca - Fe - Mg - O</b> (Ca <sub>1-0,2x</sub> Mg <sub>0,2x</sub> ) <sub>2</sub> [Mg <sub>0,8x</sub> · (Al <sub>p</sub> Fe <sub>1-p</sub> ) <sub>1-0,53x</sub> ] <sub>2</sub> O <sub>5</sub>	f 3166
(Na,Ca,Mg,Fe <sup>II,III</sup> ,Mn,Ti,Al) <sub>2</sub> · [(Al,Si) <sub>2</sub> O <sub>6</sub> ]	d 1090	<b>Al - Ca - Fe - Mg - O - Pb - Si</b> (Ca,Mg,Pb) <sub>4</sub> (Al,Fe) <sub>2</sub> (SiO <sub>3</sub> ) <sub>7</sub>	d 1026
<b>Al - Ca - Fe - Mg - Mn - Na - O - Si - Ti - V</b> (Na,Ca,Mg,Mn) <sub>3</sub> (V,Al,Fe,Ti) <sub>2</sub> · (SiO <sub>4</sub> ) <sub>3</sub>	d 926	<b>Al - Ca - Fe - Mg - O - R - Si - Ti</b> (Ca,R)(Mg,Fe <sup>II</sup> ,Al,Fe <sup>III</sup> ,Ti,Si) <sub>12</sub> · O <sub>19</sub>	d 1055 d 7672
<b>Al - Ca - Fe - Mg - Mn - O - Si</b> (Ca,Mg,Al,Fe,Mn) <sub>7</sub> SiO <sub>12</sub>	d 861	<b>Al - Ca - Fe - Mg - O - Si</b> Ca(Mg,Al,Fe <sup>III</sup> )[(Al,Si) <sub>2</sub> O <sub>6</sub> ]	d 995
(Ca,Mg,Fe,Mn) <sub>3</sub> (Al,Fe) <sub>2</sub> (SiO <sub>4</sub> ) <sub>3</sub>	d 990	(Ca,Mg,Fe) <sub>3</sub> Al <sub>2</sub> (SiO <sub>4</sub> ) <sub>3</sub>	d 993
(Ca,Mg,Fe,Mn) <sub>2</sub> [(Al,Si) <sub>3</sub> O <sub>3</sub> ] <sub>2</sub>	d 1089	(Ca,Mg,Fe) <sub>2</sub> [(Fe,Al,Si) <sub>2</sub> O <sub>6</sub> ]	d 113
(Ca,Mg,Fe <sup>II</sup> ,Mn <sup>II</sup> ,Fe <sup>III</sup> ,Al) <sub>2</sub> · [(Al,Si) <sub>2</sub> O <sub>6</sub> ]	d 1090	(Ca,Mg,Fe <sup>II</sup> ) <sub>3</sub> (Al,Fe <sup>III</sup> ) <sub>2</sub> (SiO <sub>4</sub> ) <sub>3</sub>	d 994
(Ca,Mg,Mn) <sub>3</sub> (Al,Fe <sup>III</sup> ) <sub>2</sub> (SiO <sub>4</sub> ) <sub>3</sub>	d 1087	(CaMg <sub>1-x</sub> Fe <sup>III</sup> ) <sub>2</sub> [Al <sub>x</sub> Si <sub>2-x</sub> O <sub>6</sub> ]	d 995
(Ca,Mg,Mn <sup>II</sup> ,Fe <sup>II</sup> ) <sub>3</sub> (Al,Fe <sup>III</sup> ) <sub>2</sub> · (SiO <sub>4</sub> ) <sub>3</sub>	d 1088	(Ca <sub>2</sub> MgSi <sub>2</sub> O <sub>7</sub> ) <sub>x</sub> (Ca <sub>2</sub> Al(AlSiO <sub>7</sub> )) <sub>y</sub> · (Ca <sub>2</sub> Fe <sup>III</sup> (AlSiO <sub>7</sub> )) <sub>z</sub>	d 989
(Ca,Mg,Mn <sup>II</sup> ,Fe <sup>II</sup> ) <sub>3</sub> Al <sub>2</sub> (SiO <sub>4</sub> ) <sub>3</sub>	d 1086	(Ca <sub>x</sub> Mg <sub>y</sub> Fe <sub>z</sub> ) <sub>2</sub> [(Al,Si) <sub>2</sub> O <sub>6</sub> ]	d 966
<b>Al - Ca - Fe - Mg - Mn - O - Si - Sn</b> (Ca,Mg,Mn) <sub>3</sub> (Fe,Al) <sub>2</sub> (Si,Sn)O <sub>4</sub> ] <sub>3</sub>	d 957	(Mg <sub>1-x-y-z</sub> Fe <sub>x</sub> Ca <sub>y</sub> Al <sub>z</sub> ) <sub>2</sub> Si <sub>2</sub> O <sub>6</sub>	d 964
		<b>Al - Ca - Fe - Mg - O - Si - Ti</b> (Ca,Mg,Fe,Al,Ti) <sub>2</sub> [(Al,Si) <sub>2</sub> O <sub>6</sub> ]	d 995
		(Ca,Mg,Fe <sup>II</sup> ,Fe <sup>III</sup> ,Ti,Al) <sub>2</sub> [(Al,Si) <sub>2</sub> · O <sub>6</sub> ]	d 1035
		Ca <sub>2</sub> [(Mg,Fe <sup>II</sup> ) <sub>4</sub> Fe <sup>III</sup> Ti]Al <sub>3</sub> Si <sub>3</sub> O <sub>20</sub>	d 1036
		<b>Al - Ca - Fe - Mn - O - Si</b> (Ca,Mn) <sub>3</sub> (Al,Mn <sup>III</sup> ,Fe <sup>III</sup> ) <sub>2</sub> (SiO <sub>4</sub> ) <sub>3</sub>	d 1085
		(Ca,Mn,Fe <sup>II</sup> ) <sub>3</sub> Al <sub>2</sub> (SiO <sub>4</sub> ) <sub>3</sub>	d 1083
		(Ca,Mn <sup>II</sup> ,Fe <sup>II</sup> ) <sub>3</sub> (Al,Fe <sup>III</sup> ) <sub>2</sub> (SiO <sub>4</sub> ) <sub>3</sub>	d 1084



## 2 Alphabetisches Formelverzeichnis

<b>Al - Ca - Fe - O</b>					
$\text{CaAl}_2\text{Fe}_4\text{O}_{10}$	f	3164			
$\text{Ca}(\text{Al}_{1-x}\text{Fe}_x)_{12}\text{O}_{19}$	f	3165			
$\text{CaFe}_6\text{Al}_6\text{O}_{19}$	d	7864A			
$\text{Ca}_2(\text{Al,Fe})_2\text{O}_5$	f	3162			
$\text{Ca}_2\text{AlFeO}_5$	f	3163			
$\text{Ca}_2\text{Fe}_{2-x}\text{Al}_x\text{O}_5$	d	7863			
$\text{Ca}_3\text{Al}_{2-x}\text{Fe}_x\text{O}_6$	d	7665			
	f	3161			
<b>Al - Ca - Fe - O - F' r - Si - Ti</b>					
$(\text{Pr}_3\text{Ca})\text{Fe}^{\text{II}}\text{AlTi}_3\text{Si}_4\text{O}_{22}$	d	1052			
<b>Al - Ca - Fe - O - R - Si - Th - Ti</b>					
$(\text{R,Th,Ca})_4\text{Fe}^{\text{II}}(\text{Ti,Fe,Al})_2 \cdot [(\text{Al,Si})_2\text{O}_7]_2\text{O}_8]$	d	794			
<b>Al - Ca - Fe - O - E 3</b>					
$(\text{Ca,Fe}^{\text{III}})_3(\text{Al,Fe}^{\text{III}})_2(\text{SiO}_4)_3$	d	992			
$\text{Ca}_2(\text{Al}_{1-x}\text{Fe}_x^{\text{III}})(\text{AlSiO}_7)$	d	989			
$\text{Ca}_2\text{Fe}^{\text{III}}(\text{AlSiO}_7)$	d	988			
$\text{Ca}_3(\text{Al}_x\text{Fe}_{1-x}^{\text{III}})_2(\text{SiO}_4)_3$	d	990			
$\text{Ca}_{22}\text{Fe}_3\text{Al}_{34}\text{Si}_2\text{O}_{80}$	d	987			
$\text{Ca}_{-x}\text{Fe}_x^{\text{II}}\text{Al}_2(\text{SiO}_4)_3$	d	991			
<b>Al - Ca - Fe - O - Si - Ti</b>					
$\text{Ca}_3(\text{Al,Fe})_2[(\text{Ti,Si})\text{O}_4]_3$	d	1034			
<b>Al - Ca - Fe - O - 5 3 - Y</b>					
$(\text{Ca}_{1-x}\text{Y}_x)_3(\text{Al}_{1-x}\text{Fe}_x)_2[(\text{SiO}_4)_{1-x} \cdot (\text{FeO}_4)_x]_3$	d	1016			
<b>Al - Ca - Fe - O - Si - Z r</b>					
$\text{Ca}_3\text{Zr}_2\text{Fe}_x\text{Al}_y\text{Si}_z\text{O}_{12}$	d	1058			
<b>Al - Ca - Fe - O - Ti - Z r</b>					
$(\text{Zr}_{2,36}\text{Ca}_{0,77}\text{Ti}_{0,70}^{\text{III}}\text{Ti}_{0,13}^{\text{IV}}\text{Al}_{0,06}\text{Fe}_{0,05}^{\text{III}}\text{O}_{6,97})$	b	891			
<b>Al - Ca - Fe - O - Y - Z r</b>					
$\text{Ca}_2\text{YAl}_{0,5}\text{Fe}_{2,5}\text{Zr}_2\text{O}_{12}$	e	1445			
<b>Al - Ca - Ga - Ge - O - Si</b>					
$\text{CaAl}_{1,25}\text{Ga}_{0,75}\text{Si}_{1,25}\text{Ge}_{0,75}\text{O}_8$	d	2747			
$\text{Ca}[(\text{Al}_{1-x}\text{Ga}_x)_2(\text{Si}_{1-y}\text{Ge}_y)_2\text{O}_8]$	d	2747			
<b>Al - Ca - Ga - Na - O - Si</b>					
$\text{NaCaGa}_x\text{Al}_{1-x}[\text{Si}_2\text{O}_7]$	d	446			
<b>Al - Ca - Ga - Nd - O</b>					
$\text{CaNdAl}_x\text{Ga}_{1-x}\text{O}_4 (\text{I})$	d	8123			
<b>Al - Ca - Ga - O</b>					
$\text{CaAlGaO}_4$	d	8064			
$\text{CaAl}_{1,5}\text{Ga}_{0,5}\text{O}_4$	d	8065			
$\text{Ca}_3\text{Al}_{2-x}\text{Ga}_x\text{O}_6$	d	8063			
<b>Al - Ca - Ga - O - Si</b>					
$\text{Ca}(\text{Ga,Al})_2\text{Si}_2\text{O}_8$	d	445			
$\text{Ca}_2\text{Ga}_{2-2x}\text{Al}_{2x}\text{SiO}_7$	d	444			
<b>Al - Ca - Cd - O</b>					
$\text{CaGdAlO}_4$	d	7786			
$\text{CaGdAl}_3\text{O}_7$	d	7787			
<b>Al - Ca - Ge - H - Na - O</b>					
$\text{Na}_2\text{Ca}[\text{Al}_2\text{Ge}_4\text{O}_{12}]_2 \cdot 16\text{H}_2\text{O}$	d	3048			
<b>Al - Ca - Ce - H - O</b>					
$\text{Ca}_3\text{Al}_2(\text{GeO}_4)_{3-x}(\text{OH})_{4x}$	d	3077			
<b>Al - Ca - Ge - O</b>					
$\text{CaAl}_2\text{Ge}_2\text{O}_8$	d	2543			
$\text{Ca}_2\text{Al}_2\text{GeO}_7$	d	2541			
$\text{Ca}_3\text{Al}_2(\text{GeO}_4)_3$	d	2542			
<b>Al - Ca - Ge - O - Si</b>					
$\text{CaAl}_2\text{SiGeO}_8$	d	2747			
$\text{CaAl}_2\text{Si}_{1,25}\text{Ge}_{0,75}\text{O}_8$	d	2747			
<b>Al - Ca - Ge - O - Sr</b>					
$\text{Sr}_x\text{Ca}_{1-x}\text{Al}_2\text{Ge}_2\text{O}_8$	d	2548			
<b>Al - Ca - H - J - O</b>					
$\text{Ca}_2\text{Al}(\text{OH})_6\text{J}$	d	7964			
$\text{Ca}_2\text{Al}(\text{OH})_6\text{J} \cdot 2\text{H}_2\text{O}$	d	7965			
$\text{Ca}_2\text{Al}(\text{OH})_6\text{JO}_3 \cdot 2\text{H}_2\text{O}$	b	2733			
	d	7972			
$\text{Ca}_6\text{Al}_2(\text{OH})_{16}(\text{VO}_3)_2 \cdot 26\text{H}_2\text{O}$	b	2734			
<b>Al - Ca - H - J - O - S</b>					
$\text{Ca}_8\text{Al}_4[(\text{SO}_4)_x\text{J}_{2-2x}(\text{OH})_{12}] \cdot n\text{H}_2\text{O}$	b	3937			
<b>Al - Ca - H - K - Mg - Mn - Na - O - Si</b>					
$\text{KNa}(\text{Ca,Mg,Mn})[\text{Al}_4\text{Si}_5\text{O}_{18}] \cdot 8\text{H}_2\text{O}$	d	2301			
<b>Al - Ca - H - K - Mg - Na - O - Si</b>					
$\text{K}_{0,08}\text{Na}_{0,12}\text{Ca}_{1,00}\text{Mg}_{0,06} \cdot [\text{Al}_{2,20}\text{Si}_{6,79}\text{O}_{18}] \cdot 6,51\text{H}_2\text{O}$	d	1354			
$(\text{K}_{0,94}\text{Na}_{1,00}\text{Ca}_{0,04}\text{Mg}_{0,02}) \cdot [\text{Al}_2\text{Si}_{6,54}\text{O}_{16}] \cdot 5,5\text{H}_2\text{O}$	d	1376			
$(\text{K,Na})(\text{Ca,Mg,Al})_{0,25}[(\text{Al}_{1,5}\text{Si}_{7,5}) \cdot \text{O}_{18}] \cdot 6\text{H}_2\text{O}$	d	1275			
$(\text{K,Na,Ca,Mg})_3[(\text{Al,Si})_5\text{O}_{10}]_2 \cdot 6\text{H}_2\text{O}$	d	1362			
$(\text{K,Na,Ca,Mg})_5[\text{Al}_5\text{Si}_9\text{O}_{48}] \cdot 12\text{H}_2\text{O}$	d	1377			
$\text{K}_{1,05}\text{Na}_{1,76}\text{Ca}_{1,90}\text{Mg}_{0,17} \cdot [\text{Al}_{6,72}\text{Si}_{29,20}\text{O}_{72}] \cdot 23,7\text{H}_2\text{O}$	d	1275			
$\text{K}_{1,68}\text{Na}_{1,8}\text{Ca}_{1,16}\text{Mg}_{0,25} \cdot [\text{Al}_{6,33}\text{Si}_{29,81}\text{O}_{72}] \cdot 20,1\text{H}_2\text{O}$	d	1275			
$\text{K}_{1,7}\text{Na}_{2,3}\text{Ca}_{0,5}\text{Mg}_{0,2}[\text{Al}_{6,2}\text{Si}_{30} \cdot \text{O}_{72}] \cdot 24\text{H}_2\text{O}$	d	1275			
$(\text{K}_2,\text{Na}_2,\text{Ca,Mg})_2[\text{Al}_4\text{Si}_{14}\text{O}_{36}] \cdot 13\text{H}_2\text{O}$	d	1391			
$(\text{K}_2,\text{Na}_2,\text{Ca,Mg})_{4,5}\text{Al}_9\text{Si}_{27}\text{O}_{72} \cdot 27\text{H}_2\text{O}$	d	1390			
$(\text{K}_2,\text{Na}_2,\text{Ca,Mg})_{29,5}[\text{Al}_{59}\text{Si}_{133} \cdot \text{O}_{384}] \cdot 235\text{H}_2\text{O}$	d	1386			
$(\text{K}_{2,1}\text{Na}_{10,9}\text{Ca}_{1,7}\text{Mg}_{0,3})[\text{Al}_{16,4} \cdot \text{Si}_{55,4}\text{O}_{144}] \cdot 51,6\text{H}_2\text{O}$	d	1391			
$\text{K}_{2,5}\text{Na}_{0,3}\text{Ca}_{1,4}\text{Mg}_{2,1}[\text{Al}_{9,9}\text{Si}_{26,5} \cdot \text{O}_{72}] \cdot 7\text{H}_2\text{O}$	d	1388			
$\text{K}_{2,5}\text{Na}_{0,3}\text{Ca}_{1,4}\text{Mg}_{2,1}[\text{Al}_{9,9}\text{Si}_{26,5} \cdot \text{O}_{72}] \cdot 28\text{H}_2\text{O}$	d	1389			

## 2 Alphabetical formula index

<b>Al - Ca - H - K - Mg - O - Si</b>		
$(K_2, Ca, Mg)_{2,5} Al_5 Si_{13} O_{36} \cdot 15 H_2 O$	d 1387	
<b>Al - Ca - H - K - Na - O - Si</b>		
$[K_{0,03} Na_{0,17} Ca_{0,21} (H_3 O)_{1,00}] Al_4 \cdot 3,24 H_2 O$	d 2292	
$(K_{0,10} Na_{1,06} Ca_{2,59}) [Al_{6,29} Si_{17,71} O_{48}] \cdot 15,74 H_2 O$	d 1352	
$K_{0,25} Na Ca [Al_{0,25} Si_{3,75} O_9 (OH)] \cdot 1,5 H_2 O$	d 2290	
$(K, Na, Ca_{0,5})_5 [Al_5 Si_{19} O_{48}] \cdot 12 H_2 O$	d 1377	
$(K, Na, Ca)_3 [(Al, Si)_4 (O, OH)_{11}] \cdot H_2 O$	d 2290	
$(K, Na, Ca)_{\approx 16} [Al_{\approx 16} Si_{\approx 32} O_{96}] \cdot 16 H_2 O$	d 1227	
$(K, Na, Ca) [Al_2 Si_4 O_{12}] \cdot 4 H_2 O$	d 1346	
$(K, Na, Ca) [Al_2 Si_4 O_{12}] \cdot 6 H_2 O$	d 1347	
	d 1364	
$(K, Na, Ca)_4 Al_4 Si_8 O_{24} \cdot 12 H_2 O$	d 1228	
$(K, Na, Ca)_2 [Al_4 Si_8 O_{24}] \cdot 13 H_2 O$	d 1366	
$(K, Na, Ca, H_3 O) Al_2 [(Al, Si)_4 O_{10} \cdot (OH)_2] \cdot 0,5 H_2 O$	d 2291	
$(K, Na, Ca, H_3 O) Al_4 [(Al, Si)_8 O_{20} \cdot (OH)_4] \cdot 3 H_2 O$	d 2292	
$(K, Na) Ca_2 Al_3 Si_5 O_{20} \cdot 6 H_2 O$	d 1361	
$(K, Na)_4 Ca_{14} [Al_2 Si_{22} O_{58} (OH)_8] \cdot 6 H_2 O$	d 2290	
$(K, Na, H, Ca) (AlH_3 Si) O_3 \cdot H_2 O$	d 1187	
$(K_{1,18} Na_{1,00} (H_3 O)_{0,61} (Na_{0,24} \cdot Ca_{0,18}) [Al_{3,35} Si_{12,65} O_{40}] [Al_8 \cdot (OH)_8] \cdot 2 H_2 O$	d 2291	
$(K_2, Na_2, Ca) Al_2 [(Al, Si)_{12} O_{28}] \cdot 6 H_2 O$	d 1379	
$(K_2, Na_2, Ca) [Al_2 Si_3 O_{10}] \cdot 2 H_2 O$	d 1220	
$(K_2, Na_2, Ca) [Al_2 Si_{10} O_{24}] \cdot 6 H_2 O$	d 1378	
$(K_2, Na_2, Ca)_2 [Al_4 Si_8 O_{24}] \cdot x H_2 O$	d 1259	
$K_2 (Na_2, Ca)_{3,5} Al_5 Si_{10} O_{32} \cdot 12 H_2 O$	d 1376	
$(K_2, Na_2, Ca)_5 Al_{10} Si_{22} O_{64} \cdot 20 H_2 O$	d 1376	
$K_2 Na_{2-n} Ca_n Al_{4+n} Si_{12-n} O_{32} \cdot 12 H_2 O (n \leq 2)$	d 1376	
<b>Al - Ca - H - K - Na - O - Si - Sr</b>		
$[K_{0,01} Na_{0,04} (H_3 O)_{0,87}] (Sr_{0,30} \cdot Ca_{1,16}) [Al_{3,84} Si_{8,10} O_{24}] \cdot 11,1 H_2 O$	d 1403	
$(K_2, Na_2, Sr, Ca) [Al_2 Si_7 O_{18}] \cdot 6 H_2 O$	d 1354	
<b>Al - Ca - H - K - O - Si</b>		
$K Ca [Al_3 Si_5 O_{16}] \cdot 6 H_2 O$	d 1376	
$(K_2, Ca) [Al_2 Si_7 O_{18}] \cdot 6 H_2 O$	d 1375	
$(K_2, Ca)_{6,5} Al_{10} Si_{10} O_{40} (OH)_3 \cdot 13 H_2 O$	d 2289	
$(K_{2-2x} Ca_x)_3 Al_6 Si_{10} O_{32} \cdot 12 H_2 O$	d 1370	
$(K_{2-2x} Ca_x)_3 Al_6 Si_{10} O_{32} \cdot 15 H_2 O$		d 1371
(I)		
$(K_{2-2x} Ca_x)_3 Al_6 Si_{10} O_{32} \cdot 15 H_2 O$		d 1372
(II)		
$(K_{2-2x} Ca_x)_3 Al_6 Si_{10} O_{32} \cdot 15 H_2 O$		d 1373
(II')		
$(K_{2-2x} Ca_x)_6 Al_{12} Si_{12} O_{48} \cdot \approx 29 H_2 O$		d 1374
<b>Al - Ca - H - K - O - Si - Sr</b>		
$(K, Sr, Ca)_2 [Al_{3,6} Si_{8,4} O_{24}] \cdot 12,8 H_2 O$		d 1366
<b>Al - Ca - H - Li - O - Si</b>		
$(Li_2, Ca)_2 [Al_4 Si_8 O_{24}] \cdot x H_2 O$		d 1206
$(Li_{2-2x} Ca_x)_6 Al_{12} Si_{12} O_{48} \cdot \approx 29 H_2 O$		d 1356
<b>Al - Ca - H - Mg - Mn - O - Si</b>		
$Ca_{10} (Mg, Mn)_2 Al_4 [Si_9 O_{34} (OH)_4]$		d 1857
<b>Al - Ca - H - Mg - Na - O - Si</b>		
$(Na, Ca, Mg) Al_4 [AlSi_3 O_{10} (OH)_8]$		d 1670
$(Na_2, Ca, Mg) [Al_2 Si_4 O_{12}] \cdot 7 \dots 8 H_2 O$		d 1386
$Na_{11,2} Ca_{15,4} Mg_{12,4} [Al_{62,5} Si_{132,4} \cdot O_{391,9}] \cdot 249,4 H_2 O$		d 1386
<b>Al - Ca - H - Mg - Na - O - Si - Zn</b>		
$(Na, Ca)_x (Zn, Mg)_3 [(Al, Si)_4 O_{10} \cdot (OH)_2] \cdot 4 H_2 O$		d 2299
<b>Al - Ca - H - Mg - O - Si</b>		
$Ca_{0,19} [Mg_{0,51} Al_{1,80} (OH)_6] \cdot [Al_{0,80} Si_{7,20} O_{20}] [Al_4 (OH)_4] \cdot (H_2 O)_2$		d 2293
$Ca (Mg, Al)_{3 \dots 2} [Al_2 Si_2 O_{10} (OH)_2]$		d 1736
		d 1737
$(Ca, Mg)_{0,7} Al_{5,8} [(Al, Si)_8 O_{20} \cdot (OH)_{10}] \cdot 2 H_2 O$		d 2293
$Ca Mg_2 Al [Al_3 SiO_{10} (OH)_2]$		d 1736
$Ca_{9,3} Mg_{1,6} Al_{5,05} [Si_8,8 O_{34} (OH)_4]$		d 1947
$Ca_{10} Mg_2 Al_4 [(Si_9 O_{34}) (OH)_4]$		d 1947
$Ca_{18} (Ca_{2-x} Mg_x) Mg_2 (Mg_{2-y} Al_y) \cdot Al_8 (Al, Si_{2-y}) Si_{16} O_{68} (OH)_8$		d 1947
$(Ca_x Mg_{1-x})_6 Al_{12} Si_{12} O_{48} \cdot \approx 29 H_2 O$		d 1385
<b>Al - Ca - H - Mg - O - Si - Ti</b>		
$Ca_{10} Mg_2 Al_4 [(Al, Si, Ti)_9 O_{34} (OH)_4]$		d 1818
<b>Al - Ca - H - Mn - Nb - O - Pb - Ta - Y</b>		
$(Ca, Y, Mn, Pb, \dots)_{2-x} (Al, Nb, Ta)_2 \cdot 0, -_2 \cdot n H_2 O$		e 3471
<b>Al - Ca - H - Mn - O</b>		
$Ca_2 Al (MnO_4) (OH)_6 \cdot x H_2 O$		f 2677
<b>Al - Ca - H - Mn - O - Si</b>		
$Ca_3 (Mn_{1,5}^{III} Al_{0,5}) [(SiO_4)_2 (OH)_4]$		d 1855
$Ca_4 (Al, Mn^{II}, Mn^{III})_6 (Si_5 O_{18} \cdot [(Si, H_4) O_4] (OH)_6)$		d 1856

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