# CrystalWeb Hit Display

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| Hit number 1 of 23 Inorganic Crystal Structure Database Collection Code 28835 | Reference | Cell data | |
|---|---|---|---|
| Nickel dichromium oxide<br>Ni Cr2 O4<br><br>Nichromite<br>**Structures : (formula)-InChIKey**<br>(12Cr.6Ni.42O)-NMBIRVUXWNNKFX-UHFFFAOYAS | L. Thomassen , Journal of the American Chemical Society, 62 (1940) p1134-1136 | **Lengths / Angles**<br>a 8.299 alpha 90<br>b 8.299 beta 90<br>c 8.299 gamma 90<br><br>System: Cubic<br>Space group: FD3-MS<br>Space group number: 227<br>R-factor=<br>Z=8<br>Calculated cell volume=571.580 | Display structure using Jmol<br>Download structure<br>Details from ICSD-WWW<br>Bond/angle calculation<br>Powder diffraction calculation<br>Search for spectra<br>  <br>ChemSpider Search (click image) |
| Hit number 2 of 23 Inorganic Crystal Structure Database Collection Code 31298 | Reference | Cell data | |
| Nickel dichromium oxide<br>Ni Cr2 O4<br><br>Nichromite high<br>**Structures : (formula)-InChIKey**<br>(12Cr.2Ni.26O)-PZUDLVLEHWRPHU-UHFFFAOYAH | T. Armbruster, G. A. Lager, J. Ihringer, F. J. Rotella, J. D. Jorgensen , Zeitschrift fuer Kristallographie, 162 (1983) p8-9 | **Lengths / Angles**<br>a 8.3178 alpha 90<br>b 8.3178 beta 90<br>c 8.3178 gamma 90<br><br>System: Cubic<br>Space group: FD3-MZ<br>Space group number: 227<br>R-factor=.028<br>Z=8<br>Calculated cell<br><br>volume=575.474 | Display structure using Jmol<br>Download structure<br>Details from ICSD-WWW<br>Bond/angle calculation<br>Powder diffraction calculation<br>Search for spectra<br>  <br>ChemSpider Search (click image) |
| Hit number 3 of 23 Inorganic Crystal Structure Database Collection Code 31299 | Reference | Cell data | |
| Nickel dichromium oxide | | **Lengths / Angles**<br>a 8.2565 alpha 90<br>b 8.2565 beta 90 | Display structure using Jmol<br>Download structure |

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| Ni Cr2 O4<br><br>Nichromite<br>**Structures : (formula)-InChIKey**<br>(12Cr.Ni.24O)-UFDIHYFGEVMXGE-UHFFFAOYAJ | T. Armbruster, G. A. Lager, J. Ihringer, F. J. Rotella, J. D. Jorgensen , Zeitschrift fuer Kristallographie, 162 (1983) p8-9 | c 8.4349 gamma 90<br><br>System: Tetragonal<br>Space group: F41/DDMZ<br>Space group number: 141<br>R-factor=.029<br>Z=8<br>Calculated cell volume=575.005 | Details from ICSD-WWW<br>Bond/angle calculation<br>Powder diffraction calculation<br>Search for spectra<br>  <br>ChemSpider Search (click image) |
| Hit number 4 of 23<br>Inorganic Crystal Structure Database Collection Code 31300 | Reference | Cell data | |
| Nickel dichromium oxide<br>Ni Cr2 O4<br><br>Nichromite low<br>**Structures : (formula)-InChIKey**<br>(12Cr.Ni.24O)-UFDIHYFGEVMXGE-UHFFFAOYAJ | T. Armbruster, G. A. Lager, J. Ihringer, F. J. Rotella, J. D. Jorgensen , Zeitschrift fuer Kristallographie, 162 (1983) p8-9 | **Lengths** **Angles**<br>a 8.1742 alpha 90<br>b 8.1742 beta 90<br>c 8.5618 gamma 90<br><br>System: Tetragonal<br>Space group: F41/DDMZ<br>Space group number: 141<br>R-factor=<br>Z=8<br>Calculated cell volume=572.078 | Display structure<br>using Jmol<br>Download structure<br>Details from ICSD-WWW<br>Bond/angle calculation<br>Powder diffraction calculation<br>Search for spectra<br>  <br>ChemSpider Search (click image) |
| Hit number 5 of 23<br>Inorganic Crystal Structure Database Collection Code 37023 | Reference | Cell data | |
| Nickel dichromium oxide<br>Ni Cr2 O4<br><br>Nichromite<br>**Structures : (formula)-InChIKey**<br>(12Cr.Ni.20O)-AHQMVYQXLGVAGS-UHFFFAOYAE | E. Prince , Journal of Applied Physics, 32 (1961) p68-69 | **Lengths** **Angles**<br>a 5.76 alpha 90<br>b 5.76 beta 90<br>c 8.5 gamma 90<br><br>System: Tetragonal<br>Space group: I41/AMDS<br>Space group number: 141<br>R-factor=<br>Z=4<br>Calculated cell volume=282.010 | Display structure<br>using Jmol<br>Download structure<br>Details from ICSD-WWW<br>Bond/angle calculation<br>Powder diffraction calculation<br>Search for spectra<br>  <br>ChemSpider Search (click image) |
| Hit number 6 of 23<br>Inorganic Crystal Structure Database Collection Code 37427 | Reference | Cell data | |
| | | **Lengths** **Angles** | Display structure |

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| Nickel dichromium oxide<br>Ni Cr2 O4<br><br>Nichromite high<br>**Structures : (formula)-InChIKey**<br>(12Cr.6Ni.42O)-NMBIRVUXWNNKFX-UHFFFAOYAS | E. J. W. Verwey, E. L. Heilmann , The Journal of Chemical Physics, 15 (1947) p174-180 | a 8.316 alpha 90<br>b 8.316 beta 90<br>c 8.316 gamma 90<br><br>System: Cubic<br>Space group: FD3-MS<br>Space group number: 227<br>R-factor=<br>Z=8<br>Calculated cell volume=575.100 | using Jmol<br>Download structure<br>Details from ICSD-WWW<br>Bond/angle calculation<br>Powder diffraction calculation<br>Search for spectra<br>ChemSpider Search (click image) |
| Hit number 7 of 23<br>Inorganic Crystal Structure Database Collection Code 84376 | Reference | Cell data | |
| Nickel dichromate(III)<br>Ni (Cr2 O4 )<br><br>**Structures : (formula)-InChIKey**<br>(12Cr.2Ni.26O)-PZUDLVLEHWRPHU-UHFFFAOYAH | O. Crottaz, F. Kubel, H. Schmid , Journal of Materials Chemistry, 7 (1997) p143-146<br>Additional reference(s) | **Lengths** **Angles**<br>a 8.3155 alpha 90<br>b 8.3155 beta 90<br>c 8.3155 gamma 90<br><br>System: Cubic<br>Space group: FD3-MZ<br>Space group number: 227<br>R-factor=.037<br>Z=8<br>Calculated cell volume=574.996 | Display structure<br>using Jmol<br>Download structure<br>Details from ICSD-WWW<br>Bond/angle calculation<br>Powder diffraction calculation<br>Search for spectra<br>ChemSpider Search (click image) |
| Hit number 8 of 23<br>Inorganic Crystal Structure Database Collection Code 84377 | Reference | Cell data | |
| Nickel dichromate(III)<br>Ni (Cr2 O4 )<br><br>**Structures : (formula)-InChIKey**<br>(12Cr.Ni.20O)-AHQMVYQXLGVAGS-UHFFFAOYAE | O. Crottaz, F. Kubel, H. Schmid , Journal of Materials Chemistry, 7 (1997) p143-146<br>Additional reference(s) | **Lengths** **Angles**<br>a 5.8369 alpha 90<br>b 5.8369 beta 90<br>c 8.4301 gamma 90<br><br>System: Tetragonal<br>Space group: I41/AMDZ<br>Space group number: 141<br>R-factor=.076<br>Z=4<br>Calculated cell volume=287.208 | Display structure<br>using Jmol<br>Download structure<br>Details from ICSD-WWW<br>Bond/angle calculation<br>Powder diffraction calculation<br>Search for spectra<br>ChemSpider Search (click image) |
| Hit number 9 of 23<br>Inorganic Crystal Structure Database Collection Code 280061 | Reference | Cell data | |

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| Nickel dichromate(III)<br>Ni (Cr2 O4 )<br><br>**Structures : (formula)-InChIKey**<br>(12Cr.2Ni.26O)-PZUDLVLEHWRPHU-UHFFFAOYAH | G. Ueno, S. Sato, Y. Kino , Acta Crystallographica Section C: Crystal Structure Communications, 55 (1999) p1963-1966<br><br>Additional reference(s) | **Lengths** / **Angles**<br>a 8.3093 alpha 90<br>b 8.3093 beta 90<br>c 8.3093 gamma 90<br><br>System: Cubic<br>Space group: FD3-MZ<br>Space group number: 227<br>R-factor=.022<br>Z=8<br>Calculated cell volume=573.711 | Display structure<br>using Jmol<br>Download structure<br><br>Details from ICSD-WWW<br><br>Bond/angle calculation<br>Powder diffraction calculation<br>Search for spectra<br>  <br>ChemSpider Search (click image) |
| Hit number 10 of 23<br>Inorganic Crystal Structure Database Collection Code 280062 | Reference | Cell data | |
| Nickel dichromate(III)<br>Ni (Cr2 O4 )<br><br>**Structures : (formula)-InChIKey**<br>(4Cr.4Ni.28O)-MIHPZSVHIMKYTL-UHFFFAOYAU | G. Ueno, S. Sato, Y. Kino , Acta Crystallographica Section C: Crystal Structure Communications, 55 (1999) p1963-1966 | **Lengths** / **Angles**<br>a 5.8102 alpha 90<br>b 5.8102 beta 90<br>c 8.4806 gamma 90<br><br>System: Tetragonal<br>Space group: I41/AMDZ<br>Space group number: 141<br>R-factor=.023<br>Z=4<br>Calculated cell volume=286.292 | Display structure<br>using Jmol<br>Download structure<br><br>Details from ICSD-WWW<br><br>Bond/angle calculation<br>Powder diffraction calculation<br>Search for spectra<br>  <br>ChemSpider Search (click image) |
| Hit number 11 of 23<br>CrystMet Database Collection Code 452472 | Reference | Cell data | |
| Cr2 Ni O4<br><br>**Structures : (formula)-InChIKey** | P. P. Kirichok, V. F. Belov, V. A. Trakhtanov, G. S. Podvalnykh, M. M. Shipko, V. V. Voitkiv, V. V. Korovushkin , Ukrains'kii Fizichnii Zhurnal (Ukrainian Edition), 17 (1972) p459-465 | **Lengths** / **Angles**<br>a 8.305 alpha 90<br>b 8.305 beta 90<br>c 8.305 gamma 90<br><br>System: Cubic<br>Space group: Fd-3mO2<br>Space group number: 227<br>R-factor=0<br>Z=8<br>Calculated cell volume=572.821 | No coordinates given for this compound. |
| Hit number 12 of 23<br>CrystMet Database Collection Code 479604 | Reference | Cell data | |

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| Cr2 Ni O4<br><br>**Structures : (formula)-InChIKey**<br>(14Cr.26O)-ULYYKSGKZVGKAL-UHFFFAOYAF | O. Crottaz, F. Kubel, H. Schmid , Journal of Materials Chemistry, 7 (1997) p143-146 | **Lengths** / **Angles**<br>a 8.3155 alpha 90<br>b 8.3155 beta 90<br>c 8.3155 gamma 90<br><br>System: Cubic<br>Space group: Fd-3mO2<br>Space group number: 227<br>R-factor=.037<br>Z=8<br>Calculated cell volume=574.996 | Display structure<br>using Jmol<br>Download structure<br><br>Bond/angle calculation<br>Powder diffraction calculation<br>Search for spectra<br>  <br>ChemSpider Search (click image) |
| Hit number 13 of 23<br>CrystMet Database<br>Collection Code 479605 | Reference | Cell data | |
| Cr2 Ni O4<br><br>**Structures : (formula)-InChIKey**<br>(12Cr.Ni.20O)-AHQMVYQXLGVAGS-UHFFFAOYAE | O. Crottaz, F. Kubel, H. Schmid , Journal of Materials Chemistry, 7 (1997) p143-146 | **Lengths** / **Angles**<br>a 5.8369 alpha 90<br>b 5.8369 beta 90<br>c 8.4301 gamma 90<br><br>System: Tetragonal<br>Space group: I41/amdO2<br>Space group number: 141<br>R-factor=.076<br>Z=4<br>Calculated cell volume=287.208 | Display structure<br>using Jmol<br>Download structure<br><br>Bond/angle calculation<br>Powder diffraction calculation<br>Search for spectra<br>  <br>ChemSpider Search (click image) |
| Hit number 14 of 23<br>CrystMet Database<br>Collection Code 490213 | Reference | Cell data | |
| Cr2 Ni O4<br><br>**Structures : (formula)-InChIKey** | N. Renault, N. Baffier, M. Huber , Journal of Solid State Chemistry, 5 (1972) p250-254 | **Lengths** / **Angles**<br>a 8.318 alpha 90<br>b 8.318 beta 90<br>c 8.318 gamma 90<br><br>System: Cubic<br>Space group: Fd-3mO2<br>Space group number: 227<br>R-factor=0<br>Z=8<br>Calculated cell volume=575.515 | No coordinates given for this compound. |
| Hit number 15 of 23<br>CrystMet Database<br>Collection Code 507905 | Reference | Cell data | |

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| Cr2 Ni O4<br><br>**Structures : (formula)-InChIKey**<br>(4Cr.4Ni.28O)-MIHPZSVHIMKYTL-UHFFFAOYAU | G. Ueno, S. Sato, Y. Kino , Acta Crystallographica Section C: Crystal Structure Communications, 55 (1999) p1963-1966 | **Lengths** / **Angles**<br>a 5.8102 alpha 90<br>b 5.8102 beta 90<br>c 8.4806 gamma 90<br><br>System: Tetragonal<br>Space group: I41/amdO2<br>Space group number: 141<br>R-factor=.023<br>Z=4<br>Calculated cell volume=286.292 | Display structure<br>using Jmol<br>Download structure<br><br>Bond/angle calculation<br>Powder diffraction calculation<br>Search for spectra<br>  <br>ChemSpider Search (click image) |
| Hit number 16 of 23<br>CrystMet Database<br>Collection Code 507906 | Reference | Cell data | |
| Cr2 Ni O4<br><br>**Structures : (formula)-InChIKey**<br>(12Cr.2Ni.26O)-PZUDLVLEHWRPHU-UHFFFAOYAH | G. Ueno, S. Sato, Y. Kino , Acta Crystallographica Section C: Crystal Structure Communications, 55 (1999) p1963-1966 | **Lengths** / **Angles**<br>a 8.3093 alpha 90<br>b 8.3093 beta 90<br>c 8.3093 gamma 90<br><br>System: Cubic<br>Space group: Fd-3mO2<br>Space group number: 227<br>R-factor=.022<br>Z=8<br>Calculated cell volume=573.711 | Display structure<br>using Jmol<br>Download structure<br><br>Bond/angle calculation<br>Powder diffraction calculation<br>Search for spectra<br>  <br>ChemSpider Search (click image) |
| Hit number 17 of 23<br>CrystMet Database<br>Collection Code 513105 | Reference | Cell data | |
| Cr2 Ni O4<br><br>**Structures : (formula)-InChIKey** | H. Ishibashi, T. Yasumi , Journal of Magnetism and Magnetic Materials, 310 (2007) pe610-e612 | **Lengths** / **Angles**<br>a 8.188 alpha 90<br>b 8.188 beta 90<br>c 8.545 gamma 90<br><br>System: Tetragonal<br>Space group: F41/ddmO2<br>Space group number: 141<br>R-factor=0<br>Z=4<br>Calculated cell volume=572.885 | No coordinates given for this compound. |
| Hit number 18 of 23<br>CrystMet Database<br>Collection Code AL3915 | Reference | Cell data | |
| | | **Lengths** / **Angles** | |

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| Cr2 Ni O4<br><br>**Structures : (formula)-InChIKey**<br>(12Cr.6Ni.42O)-NMBIRVUXWNNKFX-UHFFFAOYAS | E. J. W. Verwey, E. L. Heilman , The Journal of Chemical Physics, 15 (1947) p174 | **Lengths** **Angles**<br>a 8.316 alpha 90<br>b 8.316 beta 90<br>c 8.316 gamma 90<br><br>System: Cubic<br>Space group: Fd-3mO1<br>Space group number: 227<br>R-factor=0<br>Z=8<br>Calculated cell volume=575.100 | Display structure<br>using Jmol<br>Download structure<br><br>Bond/angle calculation<br>Powder diffraction calculation<br>Search for spectra<br>  <br>ChemSpider Search (click image) |
| Hit number 19 of 23 Crystal Data Identification File NIST Collection Code (Reference No.) 024249 | Reference | Cell data | |
| Chromium nickel oxide<br>Cr2 Ni O4<br><br>**Structures : (formula)-InChIKey** | , The Journal of Chemical Physics, 15 (1947) p174 | **Lengths** **Angles**<br>a 8.32 alpha 90<br>b 8.32 beta 90<br>c 8.32 gamma 90<br><br>System: Cubic<br>Space group: Fd3m<br>Space group number: 227<br>R-factor=<br>Z=8<br>Calculated cell volume=575.930 | No coordinate data for CDIF entries. |
| Hit number 20 of 23 Crystal Data Identification File NIST Collection Code (Reference No.) 102716 | Reference | Cell data | |
| Chromium nickel oxide<br>Cr2 Ni O4<br><br>**Structures : (formula)-InChIKey** | R. K. Datta R. Roy , Journal of the American Ceramic Society, 50 (1967) p578 | **Lengths** **Angles**<br>a 8.3 alpha 90<br>b 8.3 beta 90<br>c 8.3 gamma 90<br><br>System: Cubic<br>Space group: Fd3m<br>Space group number: 227<br>R-factor=<br>Z=8<br>Calculated cell volume=571.787 | No coordinate data for CDIF entries. |
| Hit number 21 of 23 Crystal Data Identification File NIST Collection Code (Reference No.) 701402 | Reference | Cell data | |
| | | **Lengths** **Angles**<br>a 8.316 alpha 90 | |

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| Ni Cr2 O4<br><br>**Structures : (formula)-InChIKey** | Vishnevskii , Inorganic Materials, 6 (1970) p269 | b 8.316 beta 90<br>c 8.316 gamma 90<br><br>System: Cubic<br>Space group: Fd3m<br>Space group number: 227<br>R-factor=<br>Z=8<br>Calculated cell volume=575.100 | No coordinate data for CDIF entries. |
| Hit number 22 of 23<br>Crystal Data Identification File NIST Collection Code (Reference No.) 701403 | Reference | Cell data | |
| Nickel Chromium Oxide<br>Ni Cr2 O4<br><br>**Structures : (formula)-InChIKey** | Vishnevskii , Inorganic Materials, 6 (1970) p269 | **Lengths** **Angles**<br>a 8.253 alpha 90<br>b 8.253 beta 90<br>c 8.441 gamma 90<br><br>System: Tetragonal<br>Space group:<br>Space group number:<br>R-factor=<br>Z=<br>Calculated cell volume=574.933 | No coordinate data for CDIF entries. |
| Hit number 23 of 23<br>Crystal Data Identification File NIST Collection Code (Reference No.) 723893 | Reference | Cell data | |
| Nickel Chromium Oxide<br>Ni Cr2 O4<br><br>**Structures : (formula)-InChIKey** | , Private Communication, | **Lengths** **Angles**<br>a 5.835 alpha 90<br>b 5.835 beta 90<br>c 8.412 gamma 90<br><br>System: Tetragonal<br>Space group: I41/amd<br>Space group number: 141<br>R-factor=<br>Z=4<br>Calculated cell volume=286.405 | No coordinate data for CDIF entries. |

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