



**EarthKosher**  
Kosher Certification Agency  
Rabbi Zushe Blech Z"l  
Founding Senior Kashrus Administrator  
Rabbi Yehuda Goldman  
Kashrus Administrator

# KOSHER CERTIFICATE

KC# 167300 - 1  
29 Sivan, 5778  
June 12, 2018

WholeChem LLC  
2200 Northwestern Avenue  
Unit 9  
Racine, WI 53404

The following products manufactured by WholeChem LLC are certified Kosher with the listed restrictions.

| Name   | K-ID     | Status | Restriction | Size |
|--|----------|--------|-------------|------|
| 2-Methoxy-4-Vinylphenol, Natural, 10% in PG                    | RMD-QZMZ | Pareve | Symbol      |      |
| 1,3-diphenyl-2-propanone (CAS: 102-04-5 FEMA: 2397)            | NPK-TQXJ | Pareve | Symbol      |      |
| 1-Propanol   | SJR-FDCP | Pareve | Symbol      |      |
| 2,3,5,6-tetramethylpyrazine, syn                               | SFX-VMWW | Pareve | Symbol      |      |
| 2,3,5,6-Tetramethylpyrazine, Natural (CAS 1124-11-4 FEMA 3237) | GBV-HDRZ | Pareve | Symbol      |      |
| 2,3,5-Trimethyl Pyrazine Natural                               | ZGD-HNHS | Pareve | Symbol      |      |
| 2,3,5-Trimethylpyrazine  | RZL-CQTB | Pareve | Symbol      |      |
| 2,3-Dimethylpyrazine, Natural                                  | ZLT-FWFH | Pareve | Symbol      |      |
| 2,3-Octanedione (CAS 585-25-1 FEMA 4060)                       | GVN-HHMG | Pareve | Symbol      |      |
| 2,4,5-Trimethylthiazole, Natural (FEMA 3325 CAS 13623 -11-5)   | NZD-BFWV | Pareve | Symbol      |      |
| 2,4-Dihydroxybenzoic Acid                                      | JQN-ZHVX | Pareve | Symbol      |      |
| 2,5-dimethylpyrazine   | BHV-XVBW | Pareve | Symbol      |      |
| 2,6-Dimethylpyrazine   | DDG-SWFM | Pareve | Symbol      |      |
| 2-Acetyl Pyrazine  | GQD-ZWHS | Pareve | Symbol      |      |

This certificate is VALID UNTIL April 15, 2019

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# KOSHER CERTIFICATE

KC# 167300 - 2  
 29 Sivan, 5778  
 June 12, 2018

WholeChem LLC  
 2200 Northwestern Avenue  
 Unit 9  
 Racine, WI 53404

The following products manufactured by WholeChem LLC are certified Kosher with the listed restrictions.

| Name   | K-ID     | Status | Restriction | Size |
|--|----------|--------|-------------|------|
| 2-Acetyl-3(5,6)-dimethylpyrazine Mix, Natural  | MFB-TLBJ | Pareve | Symbol      |      |
| 2-Acetyl-3-methylpyrazine  | CNL-BJXS | Pareve | Symbol      |      |
| 2-acetylpyrazine   | LVG-JMNS | Pareve | Symbol      |      |
| 2-Acetylpyrazine, Natural (FEMA 3126 CAS 22047-25-2)   | GRP-CPFR | Pareve | Symbol      |      |
| 2-Acetylpyridine, Natural (FEMA 3251 CAS 1122-62-9)  | ZDL-DTLR | Pareve | Symbol      |      |
| 2-Acetylpyrrole (CAS 1072-83-9 FEMA 3202)  | KJT-BLKD | Pareve | Symbol      |      |
| 2-Acetylpyrrole (CAS 1072-83-9 FEMA 3202)  | BJP-MRWX | Pareve | Symbol      |      |
| 2-Acetylthiazole, Natural (FEMA 3328 CAS 24295-03-2)   | NDF-KQWQ | Pareve | Symbol      |      |
| 2-Ethyl-1-Hexanol (CAS 104-76-7 FEMA 3151)   | FSR-VRZF | Pareve | Symbol      |      |
| 2-Ethyl-3(5 or 6)-Dimethylpyrazine   | JTJ-MFLD | Pareve | Symbol      |      |
| 2-Ethyl-3(5 & 6)dimethylpyrazine   | WJT-ZWFB | Pareve | Symbol      |      |
| 2-Ethyl-3(5,6)-dimethylpyrazine Mix, Natural   | MFV-VSFG | Pareve | Symbol      |      |
| 2-Ethyl-3(5,6)-dimethylpyrazine Mix, Natural (CAS 27043-05-6/13925-07-0/55031-15-7 FEMA 3149/3150) | PMN-ZHHZ | Pareve | Symbol      |      |
| 2-Ethyl-3-methylpyrazine   | TTX-VXWH | Pareve | Symbol      |      |

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# KOSHER CERTIFICATE

KC# 167300 - 3  
29 Sivan, 5778  
June 12, 2018

WholeChem LLC  
2200 Northwestern Avenue  
Unit 9  
Racine, WI 53404

The following products manufactured by WholeChem LLC are certified Kosher with the listed restrictions.

| Name  | K-ID     | Status | Restriction | Size |
|---|----------|--------|-------------|------|
| 2-Ethyl-5(6)-Methylpyrazine Mix (CAS 13360-64-0/<br>13925-03-6 FEMA 3154/3919)    | CLZ-CNQF | Pareve | Symbol      |      |
| 2-Ethyl-5(6)-Methylpyrazine Mix (CAS 13360-64-0/<br>13925-03-6, FEMA 3154/3919)   | BBZ-ZHKC | Pareve | Symbol      |      |
| 2-Ethyl-5(6)-methylpyrazine Mix, Natural  | QTG-XNMV | Pareve | Symbol      |      |
| 2-Ethyl-6-methylpyrazine, Natural (FEMA 3919 CAS<br>13925-03-6)                   | BJC-FVZC | Pareve | Symbol      |      |
| 2-Ethylhexyl Salicylate   | NSD-BTMF | Pareve | Symbol      |      |
| 2-Ethylpyrazine (CAS 13925-00-3 FEMA 3281)  | BKM-KNSD | Pareve | Symbol      |      |
| 2-Ethylpyrazine, Natural (FEMA 3281 CAS 13925-00-3)                               | WFV-DVGS | Pareve | Symbol      |      |
| 2-Isopropyl-4-methylthiazole, Natural   | KMC-ZXNK | Pareve | Symbol      |      |
| 2-Isopropyl-4-methylthiazole, Natural (CAS 15679-13-7)<br>10% in Propylene Glycol | ZRP-MKTG | Pareve | Symbol      |      |
| 2-Isopropyl-4-methylthiazole, natural 10% in PG                                   | KZW-QCXG | Pareve | Symbol      |      |
| 2-Isopropyl-5-methyl-2-hexenal  | WWZ-TCXQ | Pareve | Symbol      |      |

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# KOSHER CERTIFICATE

KC# 167300 - 4  
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June 12, 2018

WholeChem LLC  
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| Name  | K-ID     | Status | Restriction | Size |
|---|----------|--------|-------------|------|
| 2-Methoxy-3(5)-methylpyrazine Mix (CAS 2847-30-5/2882-22-6 FEMA 3183) | KHQ-FHNS | Pareve | Symbol      |      |
| 2-Methoxy-3-isobutylpyrazine  | QTS-BMNM | Pareve | Symbol      |      |
| 2-Methoxy-3-isopropylpyrazine   | PGK-RQVF | Pareve | Symbol      |      |
| 2-Methoxy-4-Vinylphenol, Natural, 1% in PG                            | QPW-SWLT | Pareve | Symbol      |      |
| 2-Methoxy-4-Vinylphenol, Natural, 10% in PG Lot WC20161202            | SXR-HJXK | Pareve | None        |      |
| 2-Methyl-1-butanethiol (CAS 1878-18-8 FEMA 3303)                      | GDW-PDRV | Pareve | Symbol      |      |
| 2-Methyl-3(5)-methylpyrazine Mix, Natural                             | ZDN-XWVZ | Pareve | Symbol      |      |
| 2-Methylpyrazine, Natural   | JWS-LMRX | Pareve | Symbol      |      |
| 2-Methyltetrahydrofuran-3-one   | MHK-BPJQ | Pareve | Symbol      |      |
| 2-methylthio-3(5)-methylpyrazine                                      | VTD-VVCD | Pareve | Symbol      |      |
| 2-Octen-4-one   | MPL-QTNV | Pareve | Symbol      |      |
| 3,5,5-Trimethylhexanal  | XJT-NLML | Pareve | Symbol      |      |
| 3-Ethylpyridine (CAS 536-78-7 FEMA 3394)                              | FZN-CCFR | Pareve | Symbol      |      |
| 3-Methyl-2-Butenal (CAS 107-86-8 FEMA 3646)                           | QLC-CTSD | Pareve | Symbol      |      |

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# KOSHER CERTIFICATE

KC# 167300 - 5  
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 June 12, 2018

WholeChem LLC  
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| Name   | K-ID     | Status | Restriction | Size |
|--|----------|--------|-------------|------|
| 3-Octanol, Natural   | PKK-QBJT | Pareve | Symbol      |      |
| 3-Octanol, Natural (CAS 589-98-0)  | SCQ-HWCX | Pareve | Symbol      |      |
| 3-Penten-2-one (CAS 625-33-2, FEMA 3417)                                 | FFN-VXPH | Pareve | Symbol      |      |
| 3-Propylideneophthalide, mixture of cis and trans isomers, min 96.0%, FG | BXJ-XNWB | Pareve | Symbol      |      |
| 4-Ethyl Guaiacol, Natural (CAS 2785-89-9 FEMA 2460)                      | TXT-SBCQ | Pareve | Symbol      |      |
| 5-Methyl-2-Phenyl-2-Hexenal (CAS 21834-92-4, FEMA 3199)                  | KNT-BWDH | Pareve | Symbol      |      |
| 5-Methyl-2-Thiophenecarboxaldehyde                                       | JKV-HNKL | Pareve | Symbol      |      |
| 5-methylquinoxaline  | FPK-BXPF | Pareve | Symbol      |      |
| 6-Amyl Alpha Pyrone  | NDW-VKVT | Pareve | Symbol      |      |
| Acetal   | LZD-XQXT | Pareve | Symbol      |      |
| Acetoin, Natural   | GPR-LMDV | Pareve | Symbol      |      |
| Acetoin, Synthetic (Liquid)  | BRZ-KCWK | Pareve | Symbol      |      |
| Acetyl Butyryl, Natural  | ZFK-BKXR | Pareve | Symbol      |      |
| Acetyl Propionyl   | QXT-JTQQ | Pareve | Symbol      |      |

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KC# 167300 - 6  
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| Name                                      | K-ID     | Status | Restriction | Size |
|---|----------|--------|-------------|------|
| Acetyl Propionyl, Natural                 | WWK-DHZN | Pareve | Symbol      |      |
| Allyl Butyrate (CAS 2051-78-7, FEMA 2021) | QTR-LCQL | Pareve | Symbol      |      |
| Allyl Butyrate (CAS 2051-78-7: FEMA 2021) | QHP-SFKX | Pareve | Symbol      |      |
| Allyl Phenylacetate                       | WDD-LZSW | Pareve | None        |      |
| allyl phenylacetate (CAS 1797-74-6)       | XVC-PHFL | Pareve | Symbol      |      |
| Almond Oil Bitter, Natural                | SMM-WMNW | Pareve | Symbol      |      |
| Alpha-Hexylcinnamaldehyde                 | WRV-QTWB | Pareve | Symbol      |      |
| Benzenethiol (CAS 108-98-5 FEMA 3616)     | QQW-RKBV | Pareve | Symbol      |      |
| Butyl trans-2-Decenoate                   | QWC-RMTP | Pareve | Symbol      |      |
| Butyric Acid Natural                      | JGZ-DHKX | Pareve | Symbol      |      |
| Camphor Crystals, Natural                 | XPJ-JLNR | Pareve | Symbol      |      |
| Cinnamic Aldehyde Natural                 | XVC-DSPL | Pareve | Symbol      |      |
| Cis-3-Hexenyl Benzoate                    | KXZ-NLCF | Pareve | Symbol      |      |
| Cuminic Alcohol (CAS 536-60-7 FEMA 2933)  | HDH-VMTW | Pareve | Symbol      |      |
| Cyclopentanone                            | DVF-KVDG | Pareve | Symbol      |      |
| Delta Decalactone                         | PRW-NXND | Pareve | Symbol      |      |

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# KOSHER CERTIFICATE

KC# 167300 - 7  
29 Sivan, 5778  
June 12, 2018

WholeChem LLC  
2200 Northwestern Avenue  
Unit 9  
Racine, WI 53404

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| Name  | K-ID     | Status | Restriction | Size |
|---|----------|--------|-------------|------|
| Delta Tridecalactone  | TQN-TWTM | Pareve | Symbol      |      |
| Diethyl Malate (CAS 7554-12-3 FEMA 2374)                      | PNM-XTFT | Pareve | Symbol      |      |
| Dihydroactinidolide (CAS 15356-74-8 FEMA 4020)                | DGQ-SQWD | Pareve | Symbol      |      |
| Dimethyl Benzyl Carbonyl Butyrate (CAS 10094-34-5, FEMA 2394) | XGC-XSRJ | Pareve | Symbol      |      |
| Dimethyl Sulfoxide  | RCJ-BGMZ | Pareve | Symbol      |      |
| Ethyl 2-Aminobenzoate   | LVB-QWHW | Pareve | Symbol      |      |
| Ethyl Acrylate  | ZJS-DFHV | Pareve | Symbol      |      |
| Ethyl Palmitate   | FFB-CGVB | Pareve | Symbol      |      |
| Ethyl p-Anisate (CAS 94-30-4 FEMA 2420)                       | XBK-BGZQ | Pareve | Symbol      |      |
| Ethyl Tiglate   | GDH-WMBX | Pareve | Symbol      |      |
| Ethyl Valerate, Natural                                       | CRG-WLSJ | Pareve | Symbol      |      |
| Ethyl-3-mercaptopropionate                                    | GRZ-SSKM | Pareve | Symbol      |      |
| Ethyl-3-methylthiopropionate, Natural (CAS 13327-56-5)        | TTR-KJJL | Pareve | Symbol      |      |
| Furfuryl Mercaptan, Natural (CAS 98-02-2)                     | DDH-TBCX | Pareve | Symbol      |      |
| Fusel Oil, Natural (FEMA 2497 CAS 8013-75-0)                  | FFP-DWZW | Pareve | Symbol      |      |

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# KOSHER CERTIFICATE

KC# 167300 - 8  
 29 Sivan, 5778  
 June 12, 2018

WholeChem LLC  
 2200 Northwestern Avenue  
 Unit 9  
 Racine, WI 53404

The following products manufactured by WholeChem LLC are certified Kosher with the listed restrictions.

| Name                                       | K-ID     | Status | Restriction | Size |
|--|----------|--------|-------------|------|
| Garlic Oil, Chinese                        | WNN-BXKN | Pareve | Symbol      |      |
| Iso Eugenol Natural                        | PWH-VTQD | Pareve | Symbol      |      |
| Isobutylthiazole, Natural (CAS 18640-74-9) | KFH-RXHX | Pareve | Symbol      |      |
| Medium Chain Triglyceride                  | PKM-TBFX | Pareve | Symbol      |      |
| Methional, Natural                         | TKX-TFPF | Pareve | Symbol      |      |
| Methyl Nicotinate                          | KZN-NHFT | Pareve | Symbol      |      |
| Methyl Palmitate                           | MXR-FHNR | Pareve | Symbol      |      |
| Methyl Sulphide                            | KNR-JSTZ | Pareve | Symbol      |      |
| Methyl-3-HydroxyHexanoate                  | RQV-TTSG | Pareve | Symbol      |      |
| Methyl-N-methylantranilate                 | SMZ-VDST | Pareve | Symbol      |      |
| Milk Lactone                               | GPL-CMQP | Pareve | Symbol      |      |
| Natural 2,3,5,6-Tetramethylpyrazine        | PHB-QKKQ | Pareve | Symbol      |      |
| Natural Flavor Enhancer                    | LDX-MQLS | Pareve | Symbol      |      |
| Nicotine                                   | CBB-XGQC | Pareve | Symbol      |      |
| Nonivamide                                 | ZHN-RFXJ | Pareve | Symbol      |      |
| N-Valeraldehyde                            | JSQ-NSNF | Pareve | Symbol      |      |

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# KOSHER CERTIFICATE

KC# 167300 - 9  
29 Sivan, 5778  
June 12, 2018

WholeChem LLC  
2200 Northwestern Avenue  
Unit 9  
Racine, WI 53404

The following products manufactured by WholeChem LLC are certified Kosher with the listed restrictions.

| Name   | K-ID     | Status | Restriction | Size |
|--|----------|--------|-------------|------|
| o-Cresol   | TWC-ZMLQ | Pareve | Symbol      |      |
| Oleic acid natural FCC   | HPD-FPPT | Pareve | Symbol      |      |
| o-Methoxycinnamaldehyde (CAS 1504-74-1 FEMA 3181)              | SVS-XJGD | Pareve | Symbol      |      |
| o-Methoxycinnamaldehyde (CAS 1504-74-1, FEMA 3181)             | HBS-LNZX | Pareve | Symbol      |      |
| o-Tolualdehyde (CAS 529-20-4 FEMA 3068)                        | NPK-ZTWW | Pareve | Symbol      |      |
| o-Toluenethiol   | VTX-DSFN | Pareve | Symbol      |      |
| Piperidine   | MJR-PCPH | Pareve | Symbol      |      |
| Piperonyl Acetate  | NNK-QQXZ | Pareve | Symbol      |      |
| PROPIOPHENONE  | XLR-JHHQ | Pareve | Symbol      |      |
| Propiophenone (CAS 93-55-0, FEMA 3469)                         | MLT-QZCR | Pareve | Symbol      |      |
| PROPYLENE GLYCOL, >=99.5%, FCC                                 | HFS-BNQP | Pareve | Symbol      |      |
| Pyruvic Acid   | JVK-WTSS | Pareve | Symbol      |      |
| Quinine Monohydrochloride Dihydrate (CAS 6119-47-7, FEMA 2976) | XTZ-NSDP | Pareve | Symbol      |      |

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# KOSHER CERTIFICATE

KC# 167300 - 10  
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June 12, 2018

WholeChem LLC  
2200 Northwestern Avenue  
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Racine, WI 53404

The following products manufactured by WholeChem LLC are certified Kosher with the listed restrictions.

| Name  | K-ID     | Status | Restriction | Size |
|---|----------|--------|-------------|------|
| Safranal  | KFK-CKGR | Pareve | Symbol      |      |
| Stearic Acid, FCC   | LLB-VKKW | Pareve | Symbol      |      |
| Styrallyl isobutyrate   | GWS-HZBX | Pareve | Symbol      |      |
| Thaumatococin, Natural (CAS 53850-34-3 FEMA 3732)                       | NVS-LGGD | Pareve | Symbol      |      |
| Tiglic Acid   | DWX-WLGM | Pareve | Symbol      |      |
| Tiglic Aldehyde (aka trans-2-Methyl-2-butenal) (CAS 497-03-0 FEMA 3407) | ZJH-HSZJ | Pareve | Symbol      |      |
| Triacetin, Natural (CAS 102-79-1 FEMA 2007)                             | RGL-XHWR | Pareve | Symbol      |      |
| Vanillic Acid   | XWG-LQQZ | Pareve | Symbol      |      |
| Vitamin E Acetate USP (CAS 7695-91-2)                                   | CPW-NNJV | Pareve | Symbol      |      |
| Whiskey Lactone   | DHS-FSHJ | Pareve | Symbol      |      |
| WholeNic, 10% Blend in VG, USP, Kosher                                  | NDK-CHVC | Pareve | Symbol      |      |
| Zingerone   | JHS-XQQK | Pareve | Symbol      |      |

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