

NATURAL PYRAZINES

NATURAL ACCORDING TO EU 1334/2008

PURE PRODUCTS:

- FEMA 3919 2-ETHYL-6-METHYLPYRAZINE
- FEMA 3237 2,3,5,6-TETRAMETHYLPYRAZINE
- FEMA 3244 2,3,5-TRIMETHYLPYRAZINE

MIXTURES CONTAINING:

- FEMA 3272 2,5-DIMETHYLPYRAZINE
- FEMA 3273 2,6-DIMETHYLPYRAZINE
- FEMA 3150 2-ETHYL-3,5-DIMETHYLPYRAZINE
- FEMA 3149 2-ETHYL-3,6-DIMETHYLPYRAZINE
- FEMA 4434 2-ETHYL-5,6-DIMETHYLPYRAZINE
- FEMA 3155 2-ETHYL-3-METHYLPYRAZINE
- FEMA 3154 2-ETHYL-5-METHYLPYRAZINE
- FEMA 3919 2-ETHYL-6-METHYLPYRAZINE
- FEMA 3244 2,3,5-TRIMETHYLPYRAZINE



DEVELOPED AND MANUFACTURED IN SLOVAKIA

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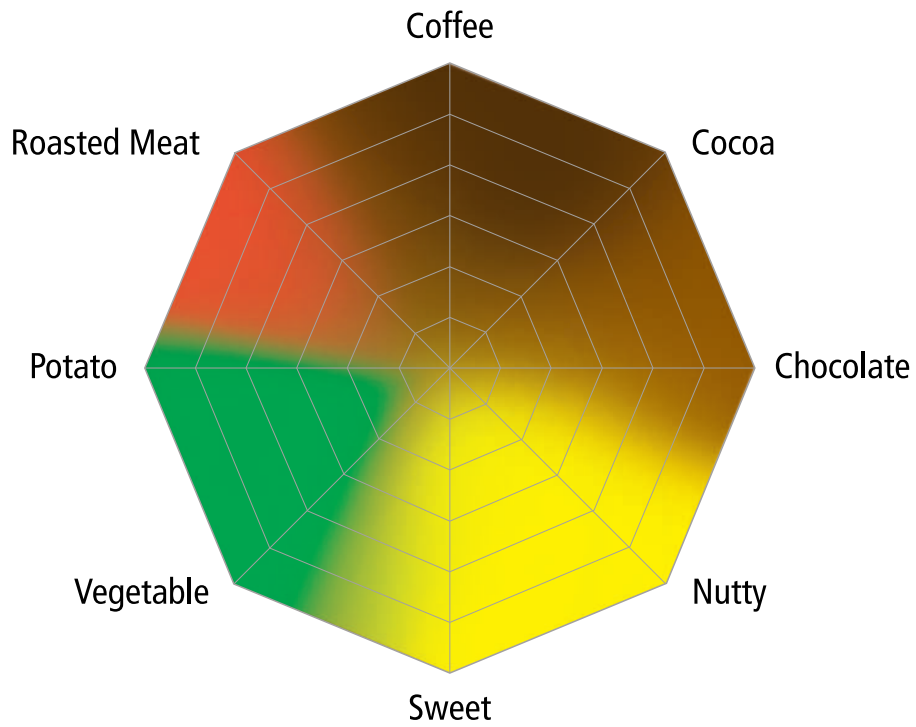
European creators of natural aroma ingredients

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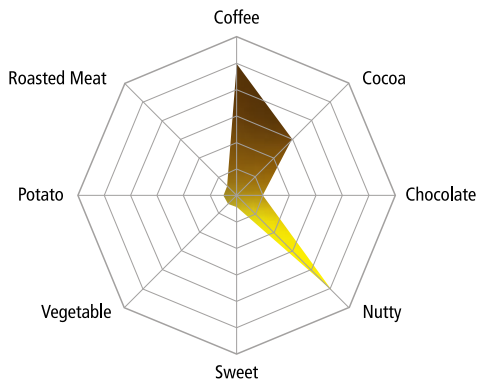
OLFACTORY TONALITY

| | |
|---|--|
| NATURAL PYRAZINES MIXTURE NO. 10 | A blend of nutty, cocoa and coffee notes with specific nuances of peanut, hazelnut. Has slight burnt characteristics performing well in some authentic coffee flavours. Perfect for enhancing hazelnut-coffee flavour. |
| NATURAL PYRAZINES MIXTURE NO. 12 | Cocoa, coffee aroma with meaty (roasted) undertones. Slightly sweeter, less burnt character, than No. 10. Can also be used to enhance potato flavour. |
| NATURAL PYRAZINES MIXTURE NO. 14 | A typical nutty, nut skin, aroma with some sweet cocoa notes. |
| NATURAL PYRAZINES MIXTURE NO. 16 | A rich, roasted nut aroma. Not as burnt as No. 10, No. 12 and No. 14. Great in nut and cocoa flavours. Will work also well, at low dosage, in meat and potato flavours. |
| NATURAL PYRAZINES MIXTURE NO. 18 | Predominant 2,3,5-Trimethyl Pyrazine puts the tonality of this mixture in the nutty, musty category with a definite beefy backnote. Great for roasted peanut, coffee, but also for gravies, sauces and meat flavours. |
| NATURAL PYRAZINES MIXTURE NO. 20 | Similar to No. 16, this is a smooth, nutty, cocoa aroma with application in baked or mashed potato flavours as well as in beef or pork flavours. |
| NATURAL PYRAZINES MIXTURE NO. 22 | A buttery, sweet, nutty, toffee candy aroma. Great for hazelnut, and flavoured coffee applications. |
| NATURAL PYRAZINES MIXTURE NO. 24 | A dry, green nutty cocoa. As compared to the other Pyrazines Mixtures, this one is less sweet, and better performing in coffee or dark chocolate flavours. |
| NATURAL PYRAZINES MIXTURE NO. 26 | A musty green vegetative aroma more suited to bell pepper and other green vegetable flavours. A nice complement to the other Pyrazines Mixtures. |
| NATURAL 2,3,5-TRIMETHYL PYRAZINE | Intense rich, nutty, powdery cocoa aroma. Great for cocoa, coffee, nut flavours and, at low dosage, in meat and potato flavours. |
| NATURAL 2,3,5,6-TETRA-METHYLPYRAZINE | Intense nutty, coffee, chocolate aroma with brown cocoa nuances. |
| NATURAL 2-ETHYL-6-METHYLPYRAZINE | Characteristic roasted, baked potato aroma. Great in gravy, potato and meat flavours. |

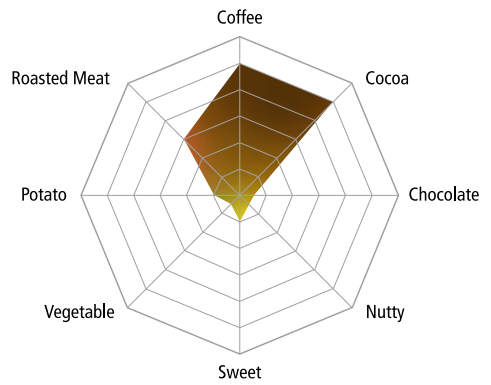
NATURAL PYRAZINES FLAVOUR WHEEL



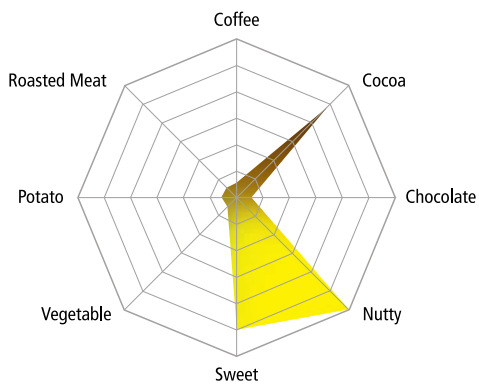
NATURAL PYRAZINES MIXTURE NO. 10



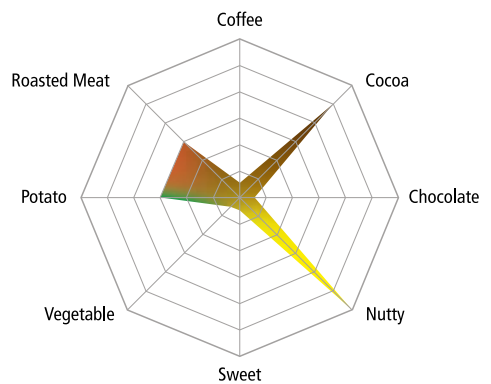
NATURAL PYRAZINES MIXTURE NO. 12



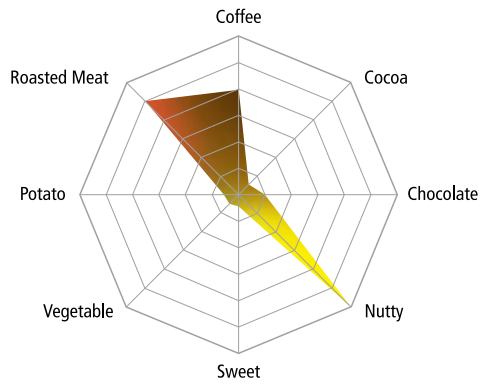
NATURAL PYRAZINES MIXTURE NO. 14



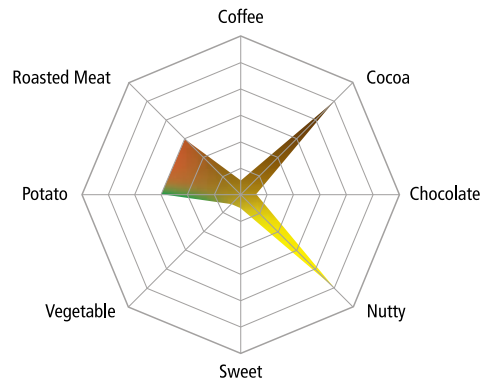
NATURAL PYRAZINES MIXTURE NO. 16



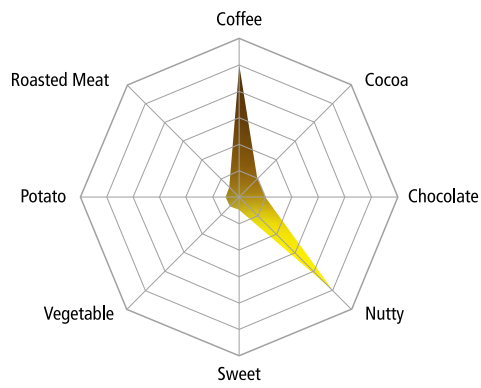
NATURAL PYRAZINES MIXTURE NO. 18



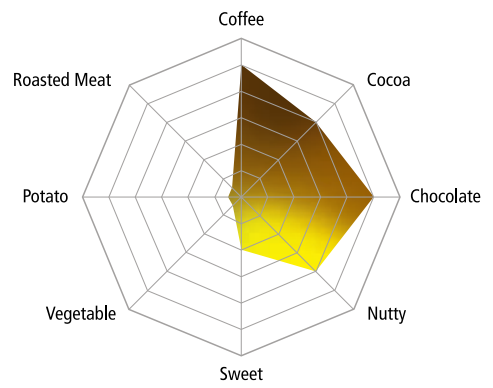
NATURAL PYRAZINES MIXTURE NO. 20



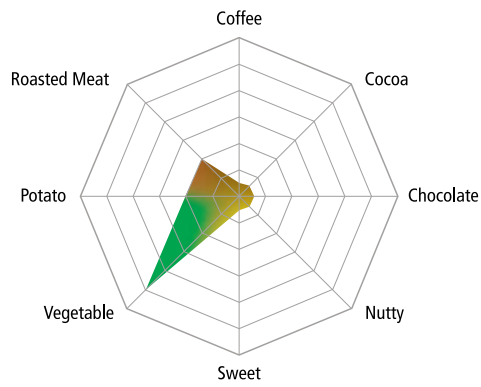
NATURAL PYRAZINES MIXTURE NO. 22



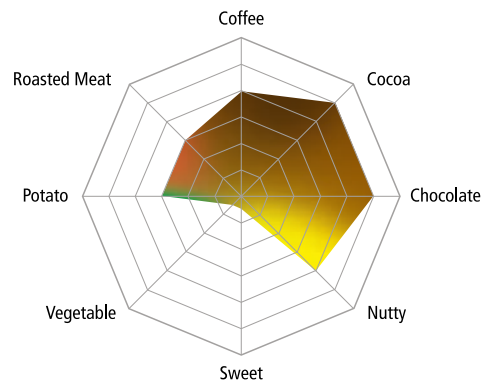
NATURAL PYRAZINES MIXTURE NO. 24



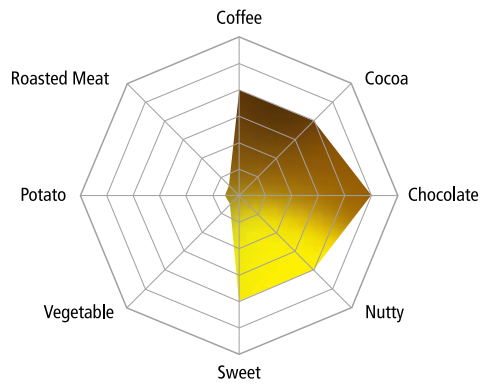
NATURAL PYRAZINES MIXTURE NO. 26



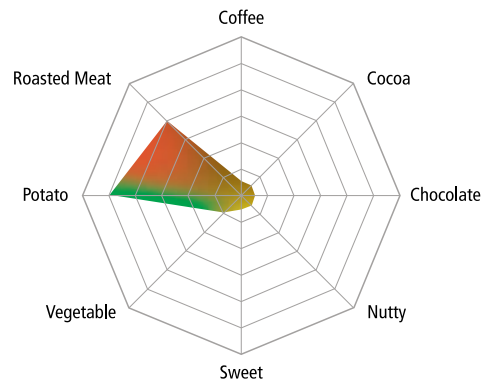
NATURAL 2,3,5-TRIMETHYLPARAZINE



NATURAL 2,3,5,6-TETRAMETHYLPARAZINE



NATURAL 2-ETHYL-6-METHYLPARAZINE



PURE PRODUCTS:

NATURAL 2-ETHYL-6-METHYLPYRAZINE Product code: 391910

| | | |
|--------------|---------------------------------|--------------|
| Composition: | 2-ETHYL-6-METHYLPYRAZINE (3919) | 95.5 – 97.0% |
| | 2-ETHYL-5-METHYLPYRAZINE (3154) | 1.6 – 2.2% |
| | 2,3,5-TRIMETHYLPYRAZINE (3244) | 1.2 – 1.8% |

FEMA: 3154, 3244, 3919

NATURAL 2,3,5,6-TETRAMETHYLPYRAZINE Product code: 323710

| | | |
|--------------|-----------------------------|----------|
| Composition: | 2,3,5,6-TETRAMETHYLPYRAZINE | min. 98% |
|--------------|-----------------------------|----------|

FEMA: 3237

NATURAL 2,3,5-TRIMETHYLPYRAZINE Product code: 324410

| | | |
|--------------|---------------------------------|----------|
| Composition: | 2,3,5-TRIMETHYLPYRAZINE (3244) | min. 97% |
| | 2-ETHYL-5-METHYLPYRAZINE (3154) | 2% |
| | 2-ETHYL-6-METHYLPYRAZINE (3919) | 0.2% |

FEMA: 3244

MIXTURES:

NATURAL PYRAZINES MIXTURE NO. 10 Product code: 314910

| | | |
|--------------|-------------------------------------|--------------|
| Composition: | 2-ETHYL-3,6-DIMETHYLPYRAZINE (3149) | 21.0 – 24.5% |
| | 2-ETHYL-6-METHYLPYRAZINE (3919) | 18.5 – 22.5% |
| | 2-ETHYL-5-METHYLPYRAZINE (3154) | 12.0 – 16.5% |
| | 2,3,5-TRIMETHYLPYRAZINE (3244) | 8.5 – 10.5% |
| | 2-ETHYL-5,6-DIMETHYLPYRAZINE (4434) | 7.2 – 10.5% |
| | 2-ETHYL-3,5-DIMETHYLPYRAZINE (3150) | 5.6 – 7.1% |
| | 2,5-DIMETHYLPYRAZINE (3272) | 5.1 – 6.8% |

FEMA: 3149, 3150, 3154, 3244, 3272, 3919, 4434

NATURAL PYRAZINES MIXTURE NO. 12 Product code: 391900

| | | |
|--------------|---------------------------------|--------------|
| Composition: | 2-ETHYL-6-METHYLPYRAZINE (3919) | 36.0 – 38.9% |
| | 2-ETHYL-5-METHYLPYRAZINE (3154) | 21.7 – 26.9% |
| | 2,5-DIMETHYLPYRAZINE (3272) | 15.2 – 16.1% |
| | 2,3,5-TRIMETHYLPYRAZINE (3244) | 13.6 – 17.3% |
| | 2,6-DIMETHYLPYRAZINE (3273) | 4.0 – 5.5% |

FEMA: 3154, 3244, 3272, 3273, 3919

NATURAL PYRAZINES MIXTURE NO. 14 Product code: 314920

| | | |
|--------------|-------------------------------------|--------------|
| Composition: | 2-ETHYL-3,6-DIMETHYLPYRAZINE (3149) | 39.0 – 43.7% |
| | 2-ETHYL-5,6-DIMETHYLPYRAZINE (4434) | 11.5 – 13.1% |
| | 2,3,5-TRIMETHYLPYRAZINE (3244) | 11.4 – 12.2% |
| | 2-ETHYL-6-METHYLPYRAZINE (3919) | 10.0 – 11.8% |
| | 2-ETHYL-5-METHYLPYRAZINE (3154) | 9.2 – 11.6% |
| | 2-ETHYL-3,5-DIMETHYLPYRAZINE (3150) | 8.8 – 9.8% |

FEMA: 3149, 3150, 3154, 3244, 3919, 4434

NATURAL PYRAZINES MIXTURE NO. 16 Product code: 327220

| | | |
|--------------|---------------------------------|--------------|
| Composition: | 2,5-DIMETHYLPYRAZINE (3272) | 54.7 – 57.4% |
| | 2,6-DIMETHYLPYRAZINE (3273) | 14.0 – 18.3% |
| | 2-ETHYL-6-METHYLPYRAZINE (3919) | 10.4 – 13.1% |
| | 2-ETHYL-5-METHYLPYRAZINE (3154) | 5.8 – 9.7% |
| | 2,3,5-TRIMETHYLPYRAZINE (3244) | 3.6 – 5.1% |
| | 2-ETHYLPYRAZINE (3281) | 1.3 – 2.7% |
| | 2,3-DIMETHYLPYRAZINE (3271) | 1.1 – 3.3% |

FEMA: 3154, 3244, 3271, 3272, 3273, 3281, 3919

NATURAL PYRAZINES MIXTURE NO. 18 Product code: 324410

| | | |
|--------------|---------------------------------|--------------|
| Composition: | 2,3,5-TRIMETHYLPYRAZINE (3244) | 62.5 – 64.5% |
| | 2-ETHYL-5-METHYLPYRAZINE (3154) | 18.0 – 24.4% |
| | 2-ETHYL-6-METHYLPYRAZINE (3919) | 10.8 – 16.5% |
| | 2-ETHYL-3-METHYLPYRAZINE (3155) | 2.0 – 4.0% |

FEMA: 3154, 3155, 3244, 3919

NATURAL PYRAZINES MIXTURE NO. 20 Product code: 327230

| | | |
|--------------|-----------------------------|--------------|
| Composition: | 2,5-DIMETHYLPYRAZINE (3272) | 71.4 – 78.0% |
| | 2,6-DIMETHYLPYRAZINE (3273) | 17.5 – 23.7% |
| | 2-ETHYLPYRAZINE (3281) | 2.4 – 4.4% |
| | 2,3-DIMETHYLPYRAZINE (3271) | 1.7 – 3.9% |

FEMA: 3271, 3272, 3273, 3281

NATURAL PYRAZINES MIXTURE NO. 22 Product code: 315400

| | | |
|--------------|---------------------------------|--------------|
| Composition: | 2-ETHYL-5-METHYLPYRAZINE (3154) | 45.5 – 46.5% |
| | 2-ETHYL-6-METHYLPYRAZINE (3919) | 37.0 – 38.0% |
| | 2,3,5-TRIMETHYLPYRAZINE (3244) | 15.8 – 16.9% |

FEMA: 3154, 3244, 3919

NATURAL PYRAZINES MIXTURE NO. 24 Product code: 314940

| | | |
|--------------|-------------------------------------|--------------|
| Composition: | 2-ETHYL-3,6-DIMETHYLPYRAZINE (3149) | 74.3 – 76.3% |
| | 2-ETHYL-3,5-DIMETHYLPYRAZINE (3150) | 11.0 – 12.8% |
| | 2-ETHYL-5,6-DIMETHYLPYRAZINE (4434) | 10.1 – 12.2% |
| | 2,5-DIETHYLPYRAZINE | 1.2 – 2.2% |

FEMA: 3149, 3150, 4434,

NATURAL PYRAZINES MIXTURE NO. 26 Product code: 391920

| | | |
|--------------|---------------------------------|--------------|
| Composition: | 2-ETHYL-6-METHYLPYRAZINE (3919) | 54.5 – 56.5% |
| | 2-ETHYL-5-METHYLPYRAZINE (3154) | 31.5 – 35.4% |
| | 2,3,5-TRIMETHYLPYRAZINE (3244) | 9.6 – 13.9% |

FEMA: 3154, 3244, 3919

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